

service & operation manual



DATA EAST USA, INC.

780-0026-00

RING KING OPERATION & SERVICE MANUAL

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1. GAME INSPECTION AND SET UP.

This new game is ready to operate upon removal from the shipping carton. However, your careful inspection prior to applying power is highly recommended. Please follow these steps to ensure that your new game has been delivered to you in good condition.

- a. Carefully examine the exterior of the game cabinet for dents, scratches, chips, or broken parts.
- b. Open the coin door with the keys attached to the joystick. Inside the coin door you will find the cashbox door and rear access door keys. Unlock and remove the rear access door. Inspect the following items:
 - * Check that all plug-in connectors in the game harnessing are firmly plugged in. Replug any connectors found to be loose or unplugged.
 - * Check that all socketed integrated circuits on the logic PCBs are firmly seated in their sockets.
 - * Check all major subassemblies (power supply, monitor, and control panel) for secure mounting.
- c. Plug in the game and watch the screen for the attract mode video. Allow 2 full minutes for the monitor to warm up completely. If you have discovered any problems up to this point, contact your distributor immediately.

2. POWER SWITCH & FUSE INFORMATION

This game features an on/off switch mounted on the Power Supply assembly. Be certain that the switch is in the OFF position before attempting to remove or repair any components in this game. There are also two fuses located next to the switch. They are labeled with their respective current ratings. These should only be replaced with FAST BLOW fuses of the same current rating.

- * The 3 Amp fuse is on the 115 VAC line. In the event that it should blow, this will remove all power to the game. Check all wiring for proper connections and look for obvious damage to the Monitor, Power Supply, and Logic PCBs before replacing the fuse.
- * The 1 Amp fuse is for the +12 VDC used for the coin door lamps. In the event that it should blow, the coin door lamps will not be illuminated. Check for damaged wires in the coin door before replacing the fuse.

2. ADJUSTMENTS & SELECTABLE OPTIONS

A. AUDIO VOLUME. The audio volume is adjustable via a trimpot (VR1) on the Logic PCB. See illustration below for volume control location.

B. POWER SUPPLY. The +5 volts DC supplied by the Regulator on the Power Supply is adjustable to allow for various load conditions. When attempting to adjust the + 5 volts DC, measure the voltage at the Logic PCB, not at the Power Supply. This measurement should be no less than 4.95 vdc, and no greater than 5.05 vdc. Carefully adjust RV01 on the Regulator PCB until the desired voltage is obtained.

C. OPERATOR SELECTABLE OPTIONS. The Operator Selectable Options can be altered by changing the settings of the Dip Switches found on the Logic PCB. Table 1 and Table 2 outline the available options.

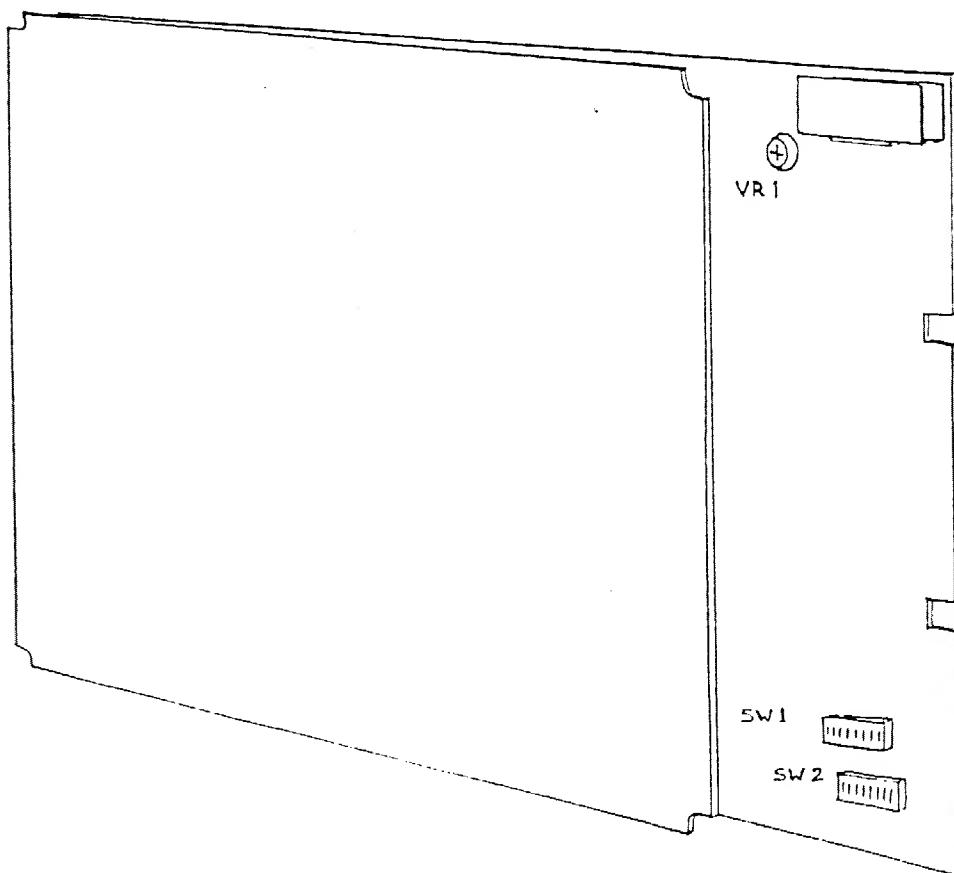


TABLE 1

Dip Switch 1		1	2	3	4	5	6	7	8
REPLAY	NONE							OFF	OFF
	70,000							ON	OFF
	100,000							OFF	ON
	150,000							ON	ON
ATTRACT MODE	SOUND NO SOUND						OFF		
							ON		
DIFFICULTY LEVEL	EASY NORMAL				OFF	OFF			
2 PLAYER	DIFFICULT VERY HARD				OFF	ON			
CABINET STYLE	TABLE UPRIGHT			OFF					
				ON					
MODE	GAME MODE DIAGNOSTIC MODE		OFF						
			ON						

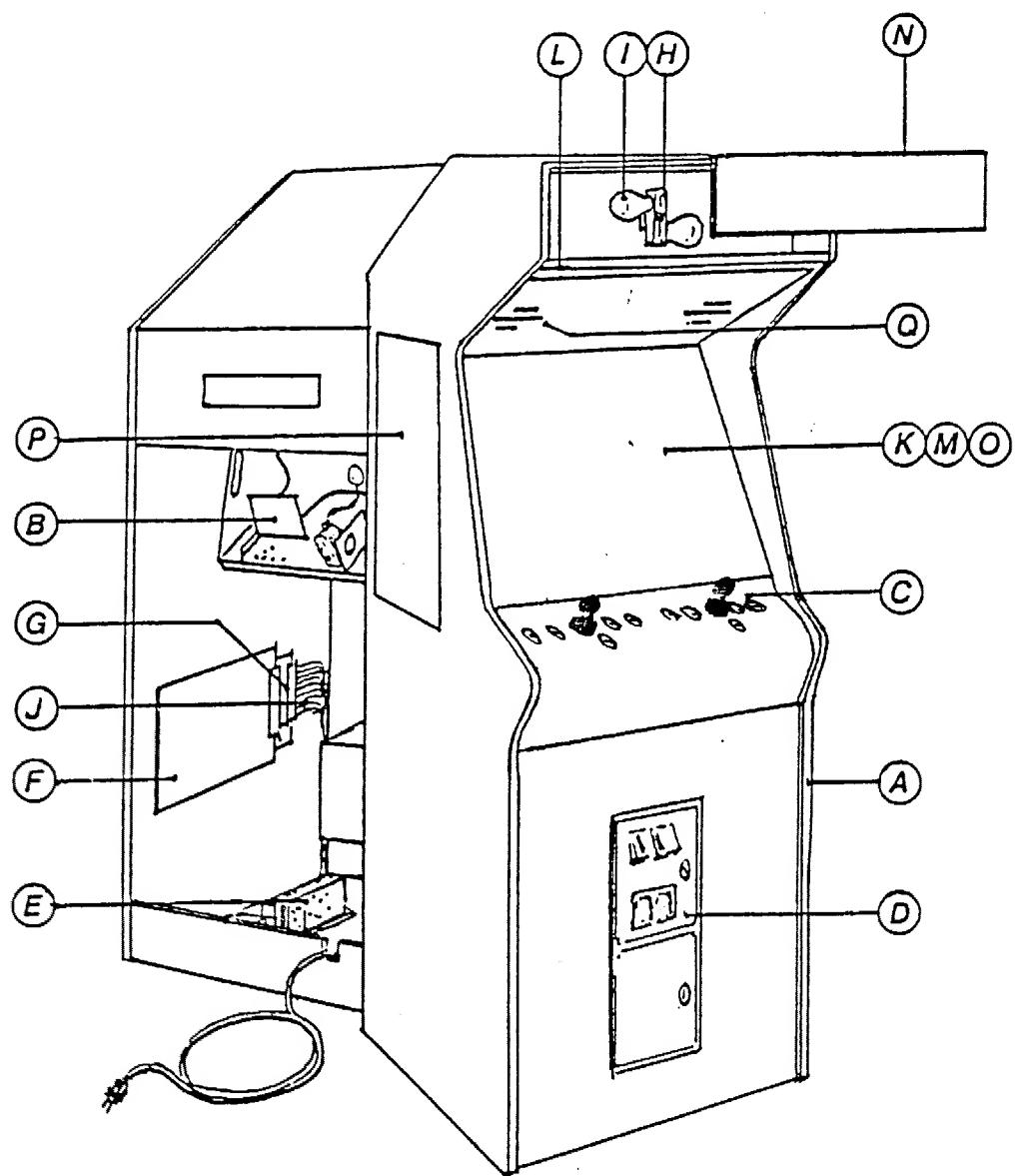
TABLE 2

Dip Switch 2		1	2	3	4	5	6	7	8
1 COIN	1 CREDIT							OFF	OFF
	2 CREDIT							OFF	ON
	3 CREDIT							ON	OFF
	1 CREDIT							ON	ON
2 COIN	1 CREDIT				OFF	OFF			
	2 CREDIT				OFF	ON			
	3 CREDIT				ON	OFF			
	1 CREDIT				ON	ON			
DIFFICULTY LEVEL	EASY NORMAL			OFF	OFF				
1 PLAYER	DIFFICULT VERY HARD			ON	ON				
BOXING MATCH	2 WIN, END 1 WIN, END		OFF						
			ON						
MODE	GAME MODE FREEZE MODE	OFF							
		ON							

4. PARTS BREAKDOWN

A. FINAL ASSEMBLY, SHOOTOUT

A	CABINET ASSY, EMPTY.....	365-0001-00
B	MONITOR ASSY, HORIZONTAL.....	510-0005-00
C	CONTROL PANEL ASSY, RING KING.....	510-0043-00
D	COIN DOOR ASSY.....	510-0004-00
E	POWER SUPPLY ASSY.....	510-0002-00
F	PCB ASSY, RING KING.....	510-0059-00
G	PCB ASSY, EMI FILTER DE-0209.....	520-0016-00
H	DUAL LAMPHOLDER ASSY.....	170-0002-00
I	LAMP, INCANDESCENT 40W.....	165-0004-00
J	HARNESS ASSY, MAIN.....	036-0035-00
K	MONITOR BEZEL.....	380-0002-00
L	PLEX RETAINER.....	535-0009-00
M	PLEX, DISPLAY, CLEAR.....	660-0001-00
N	PLEX, MARQUEE, RING KING.....	830-0015-00
O	UNDERLAY CARD, DISPLAY, RING KING.....	810-0009-00
P	SIDE DECAL, RING KING.....	820-0014-00
Q	SPEAKER, 6 X 9 INCH OVAL.....	031-0001-00

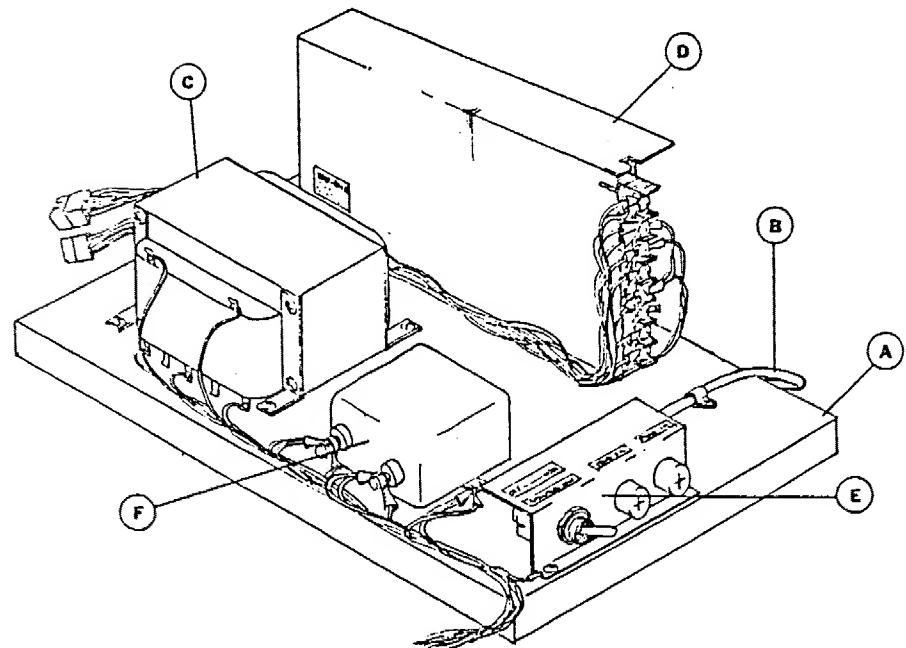
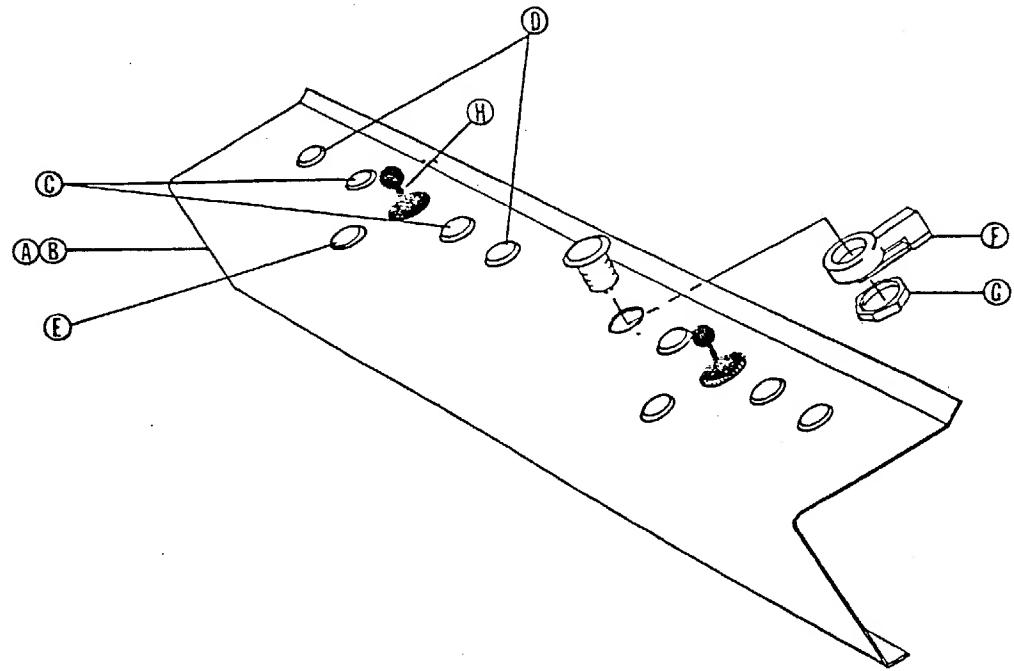


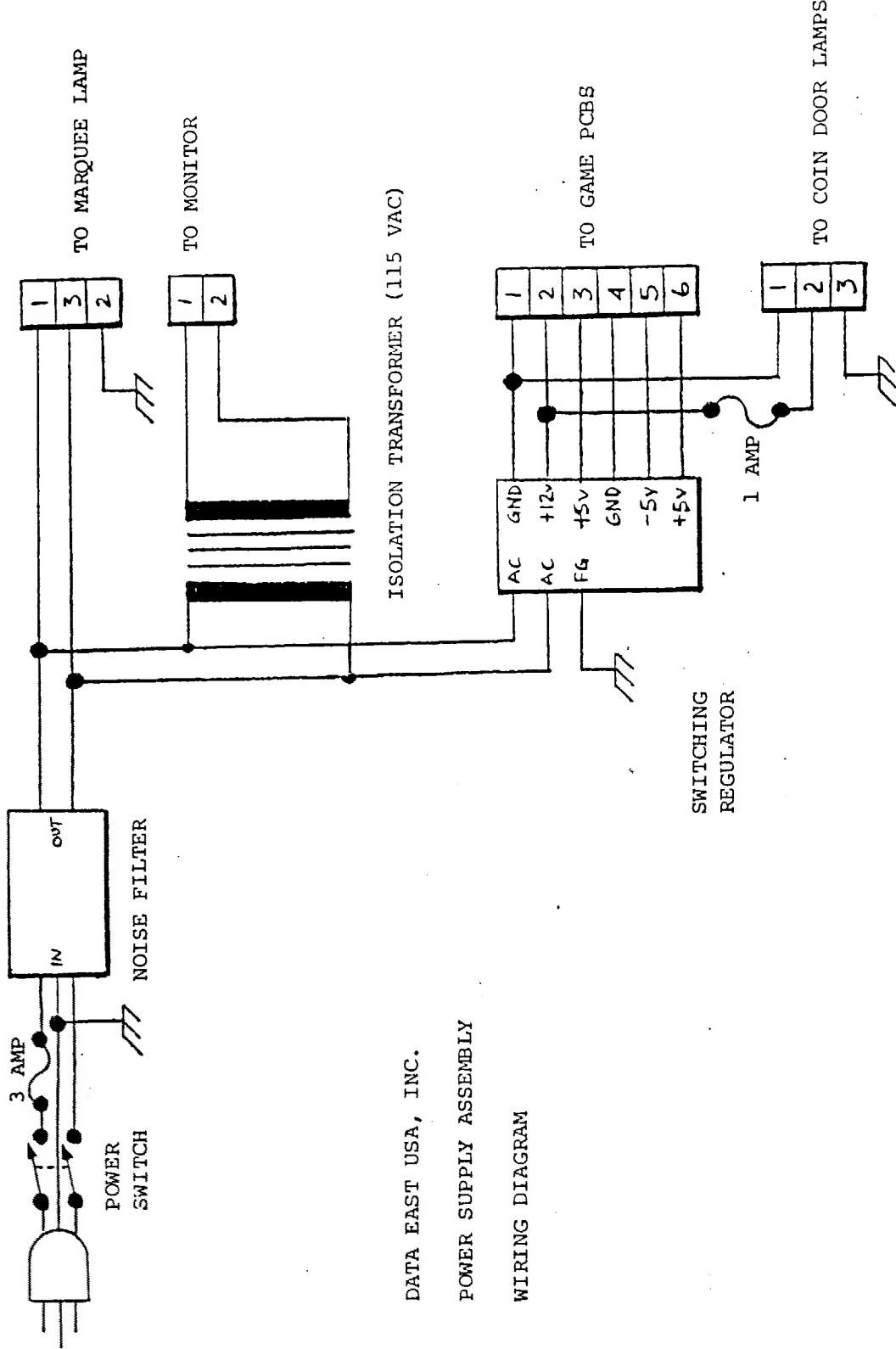
B. CONTROL PANEL ASSEMBLY

A	CONTROL PANEL, BARE.....	535-0026-00
B	CONTROL PANEL OVERLAY, RING KING.....	800-0015-00
C	PUSHBUTTON, SHORT, SOLID, RED.....	350-0001-02
D	PUSHBUTTON, SHORT, SOLID, BLU.....	350-0001-06
E	PUSHBUTTON, SHORT, SOLID, WHT.....	350-0001-09
F	PUSHBUTTON HOLDER W/LEAF SWITCH.....	185-0001-00
G	PAL NUT.....	240-0001-00
H	JOYSTICK ASSY, 4 WAY.....	450-0002-00

C. POWER SUPPLY ASSEMBLY

A	POWER SUPPLY CHASSIS, WOOD.....	515-0003-00
B	POWER CORD ASSY.....	515-0002-00
C	TRANSFORMER, ISOLATION.....	010-0001-00
D	SWITCHING REGULATOR, KAGA.....	510-0007-00
E	SWITCH BRACKET ASSY.....	515-0004-00
F	NOISE FILTER.....	150-0001-00



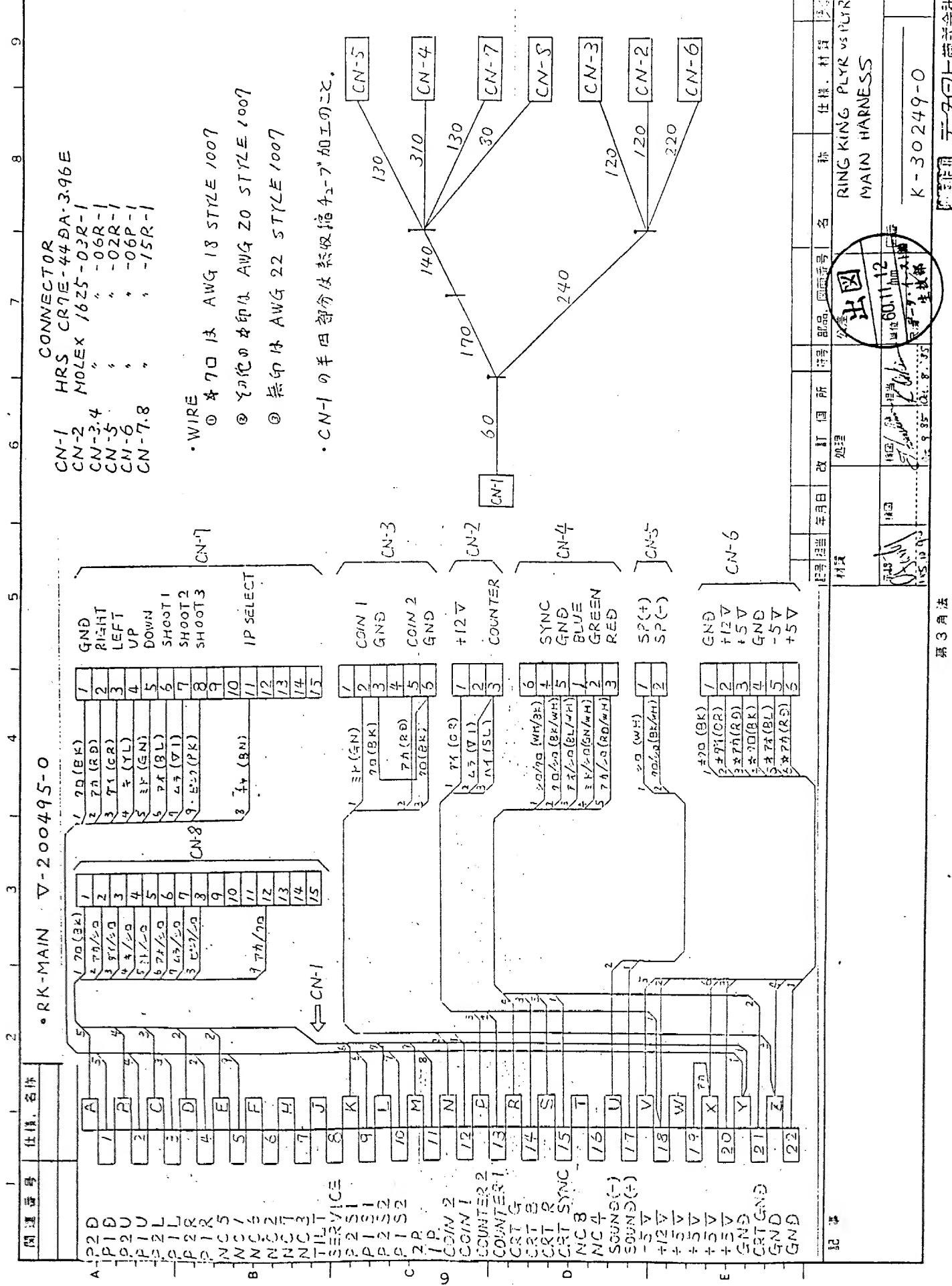


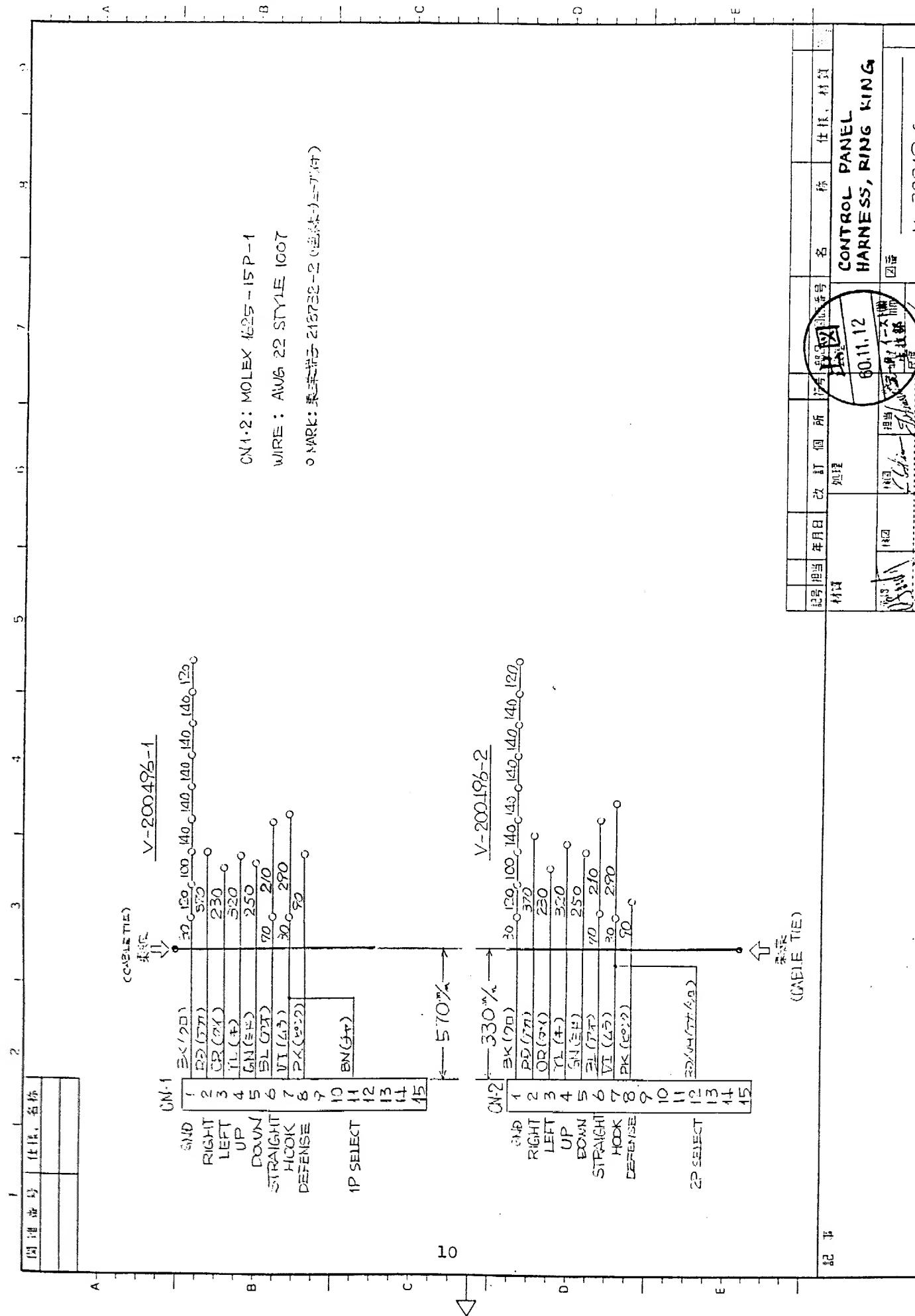
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POWER SUPPLY ASSEMBLY

WIRING DIAGRAM

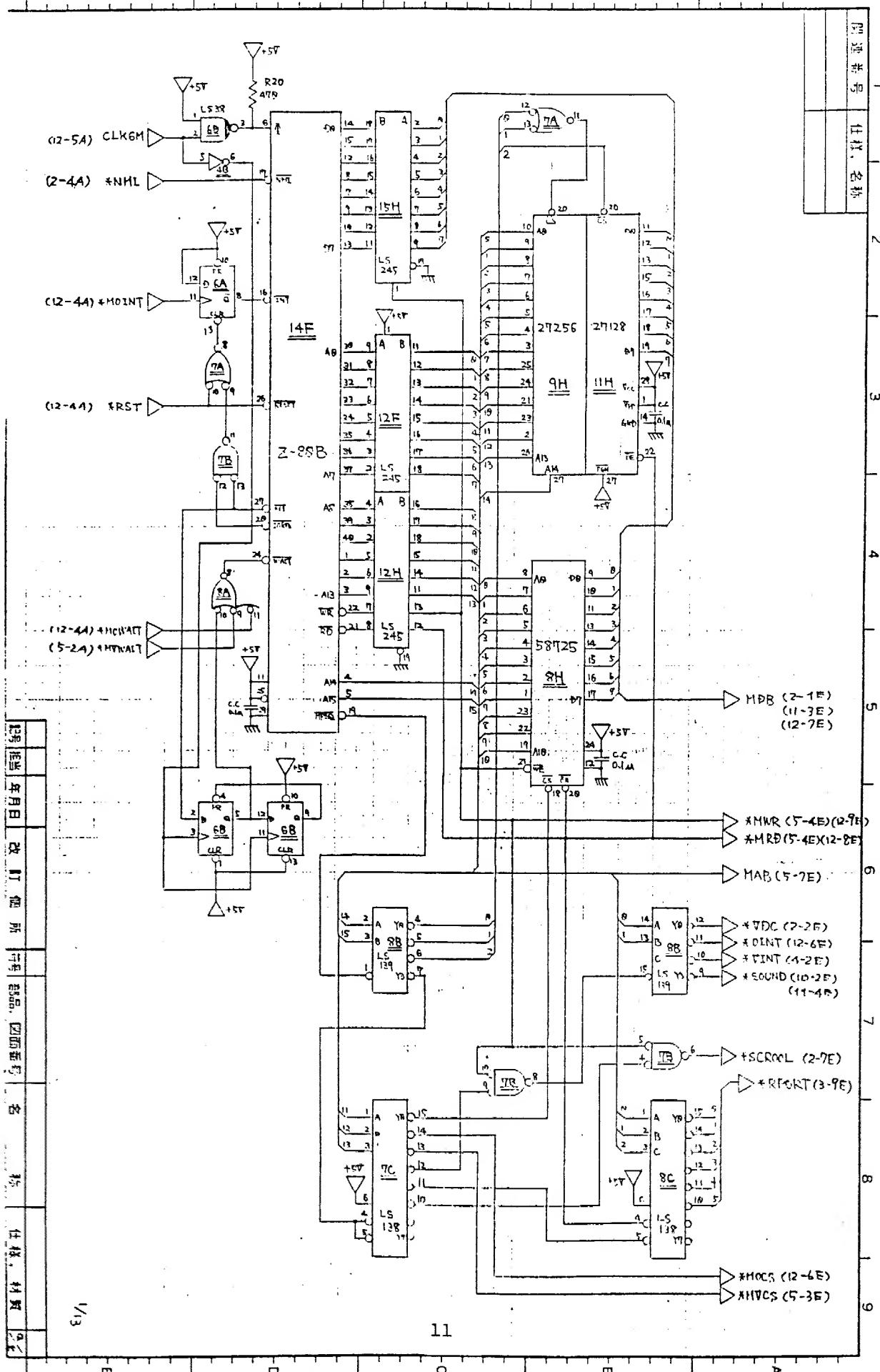
ISOLATION TRANSFORMER (115 VAC)

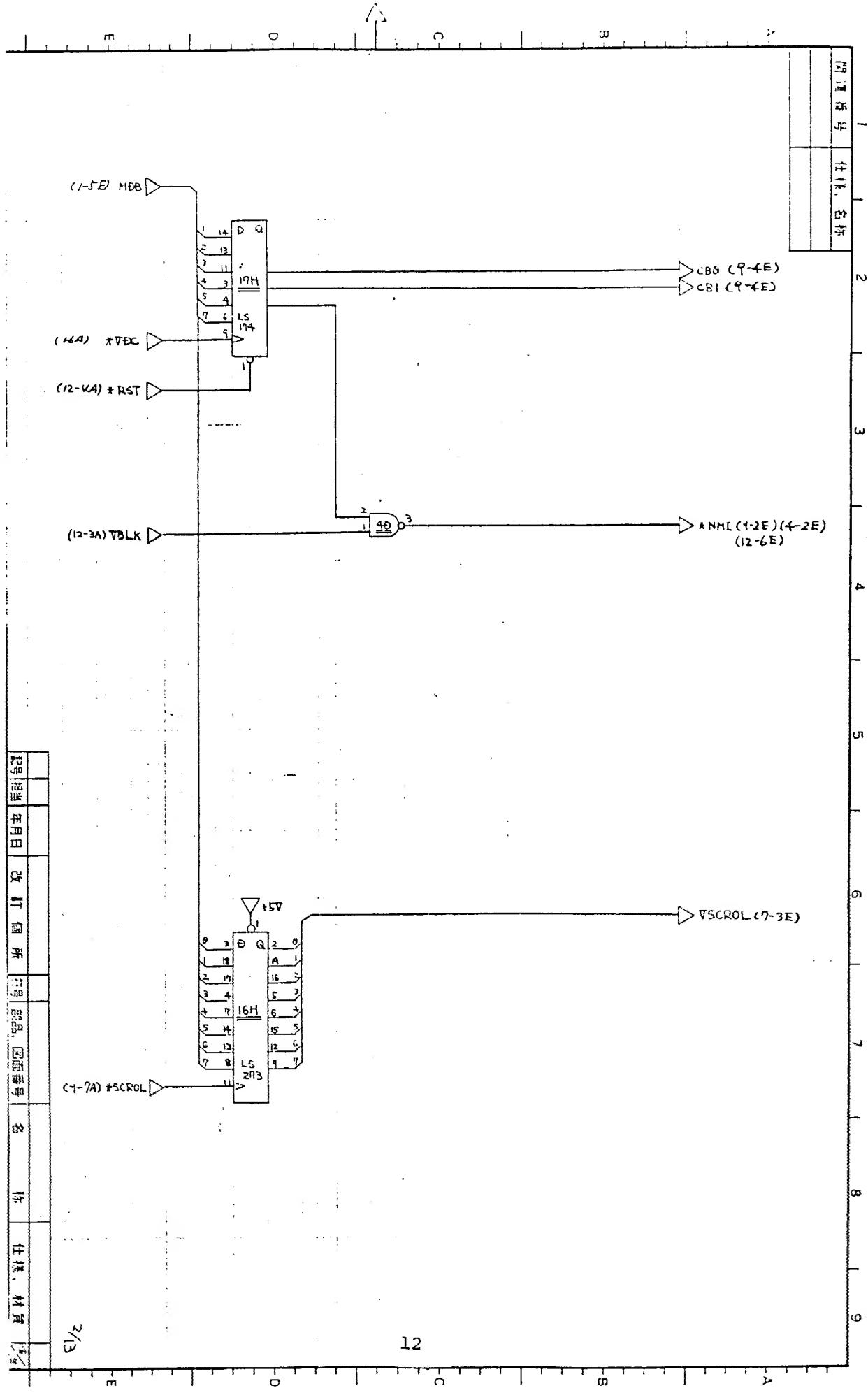


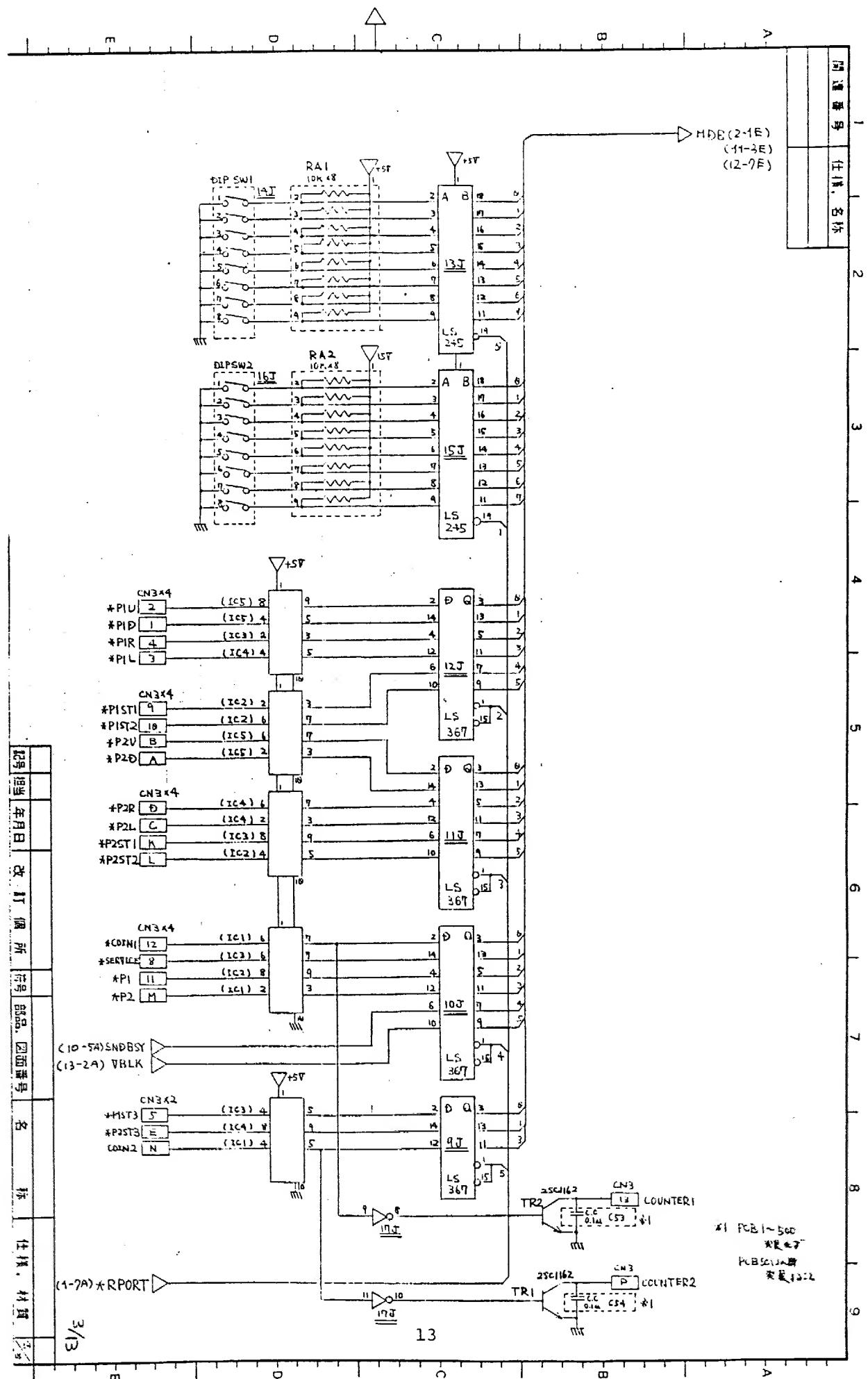


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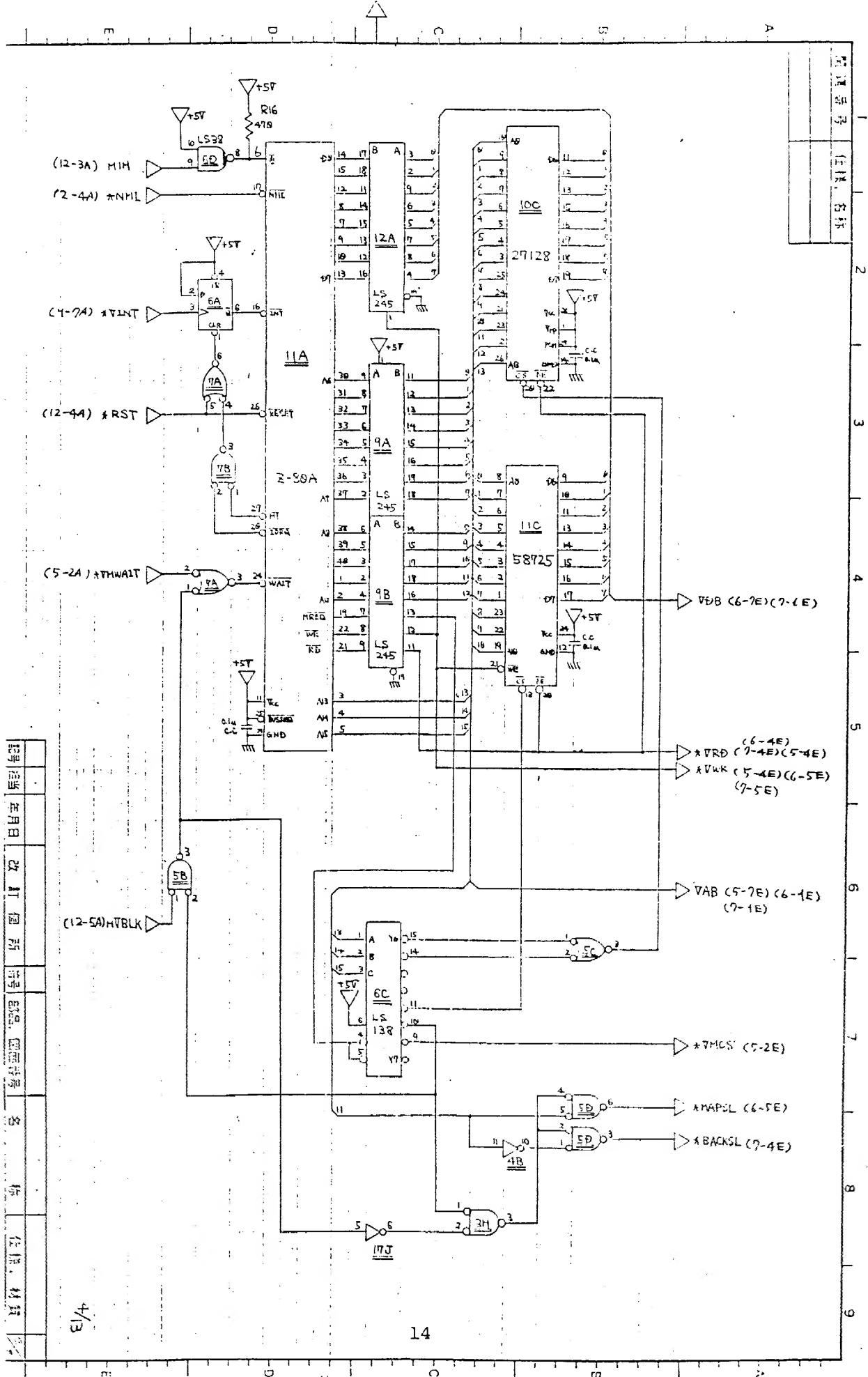
第3角法

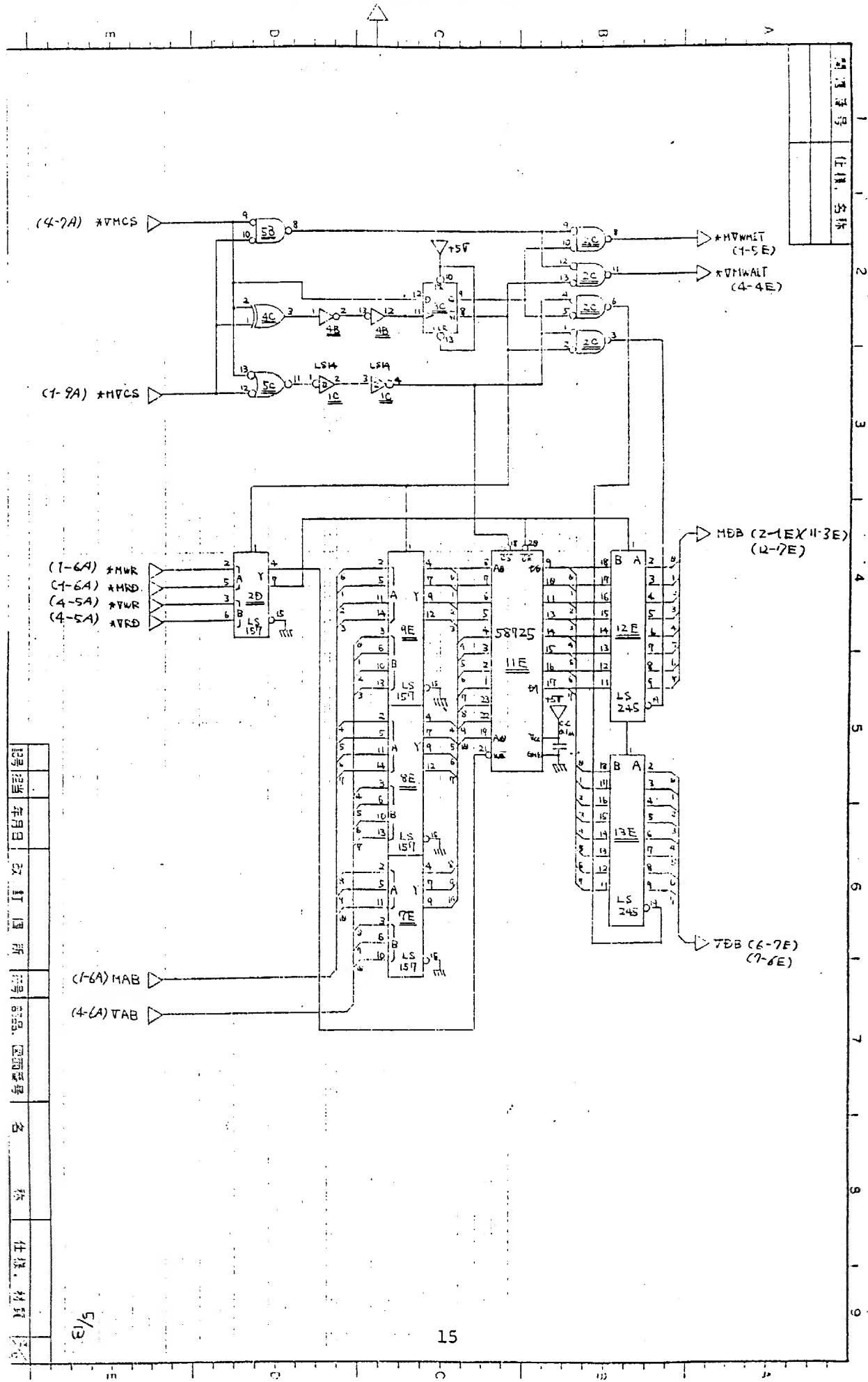


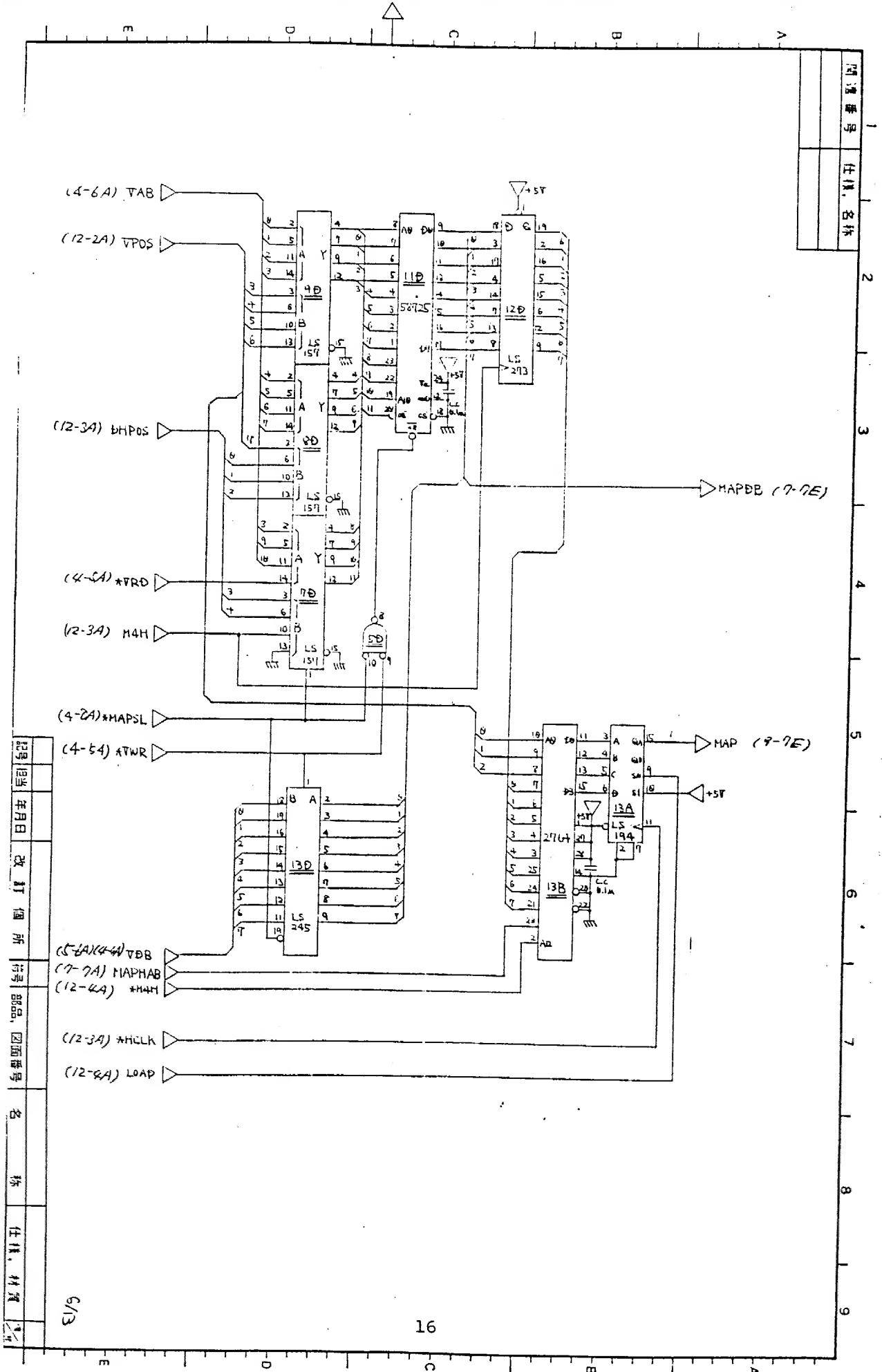


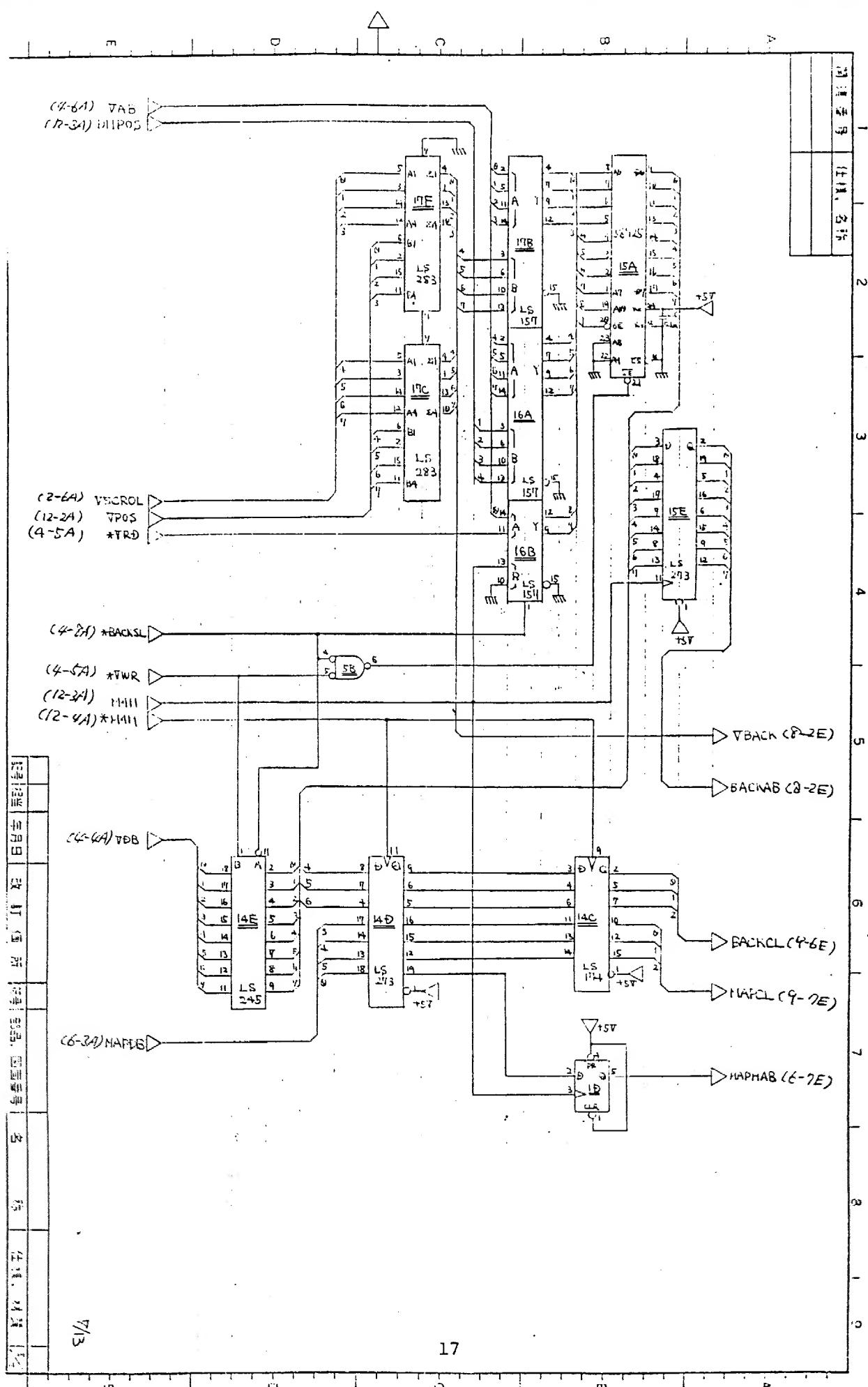


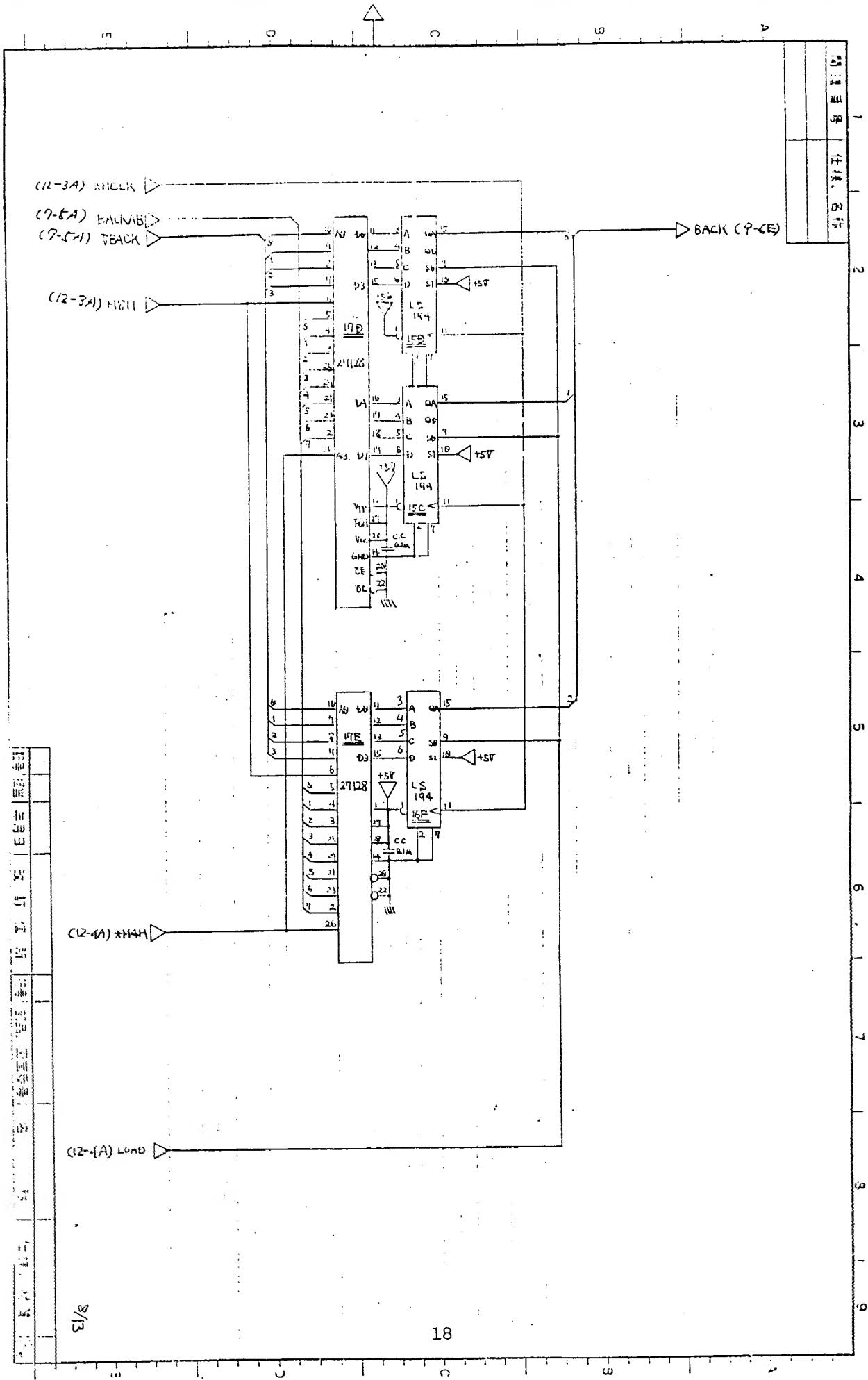
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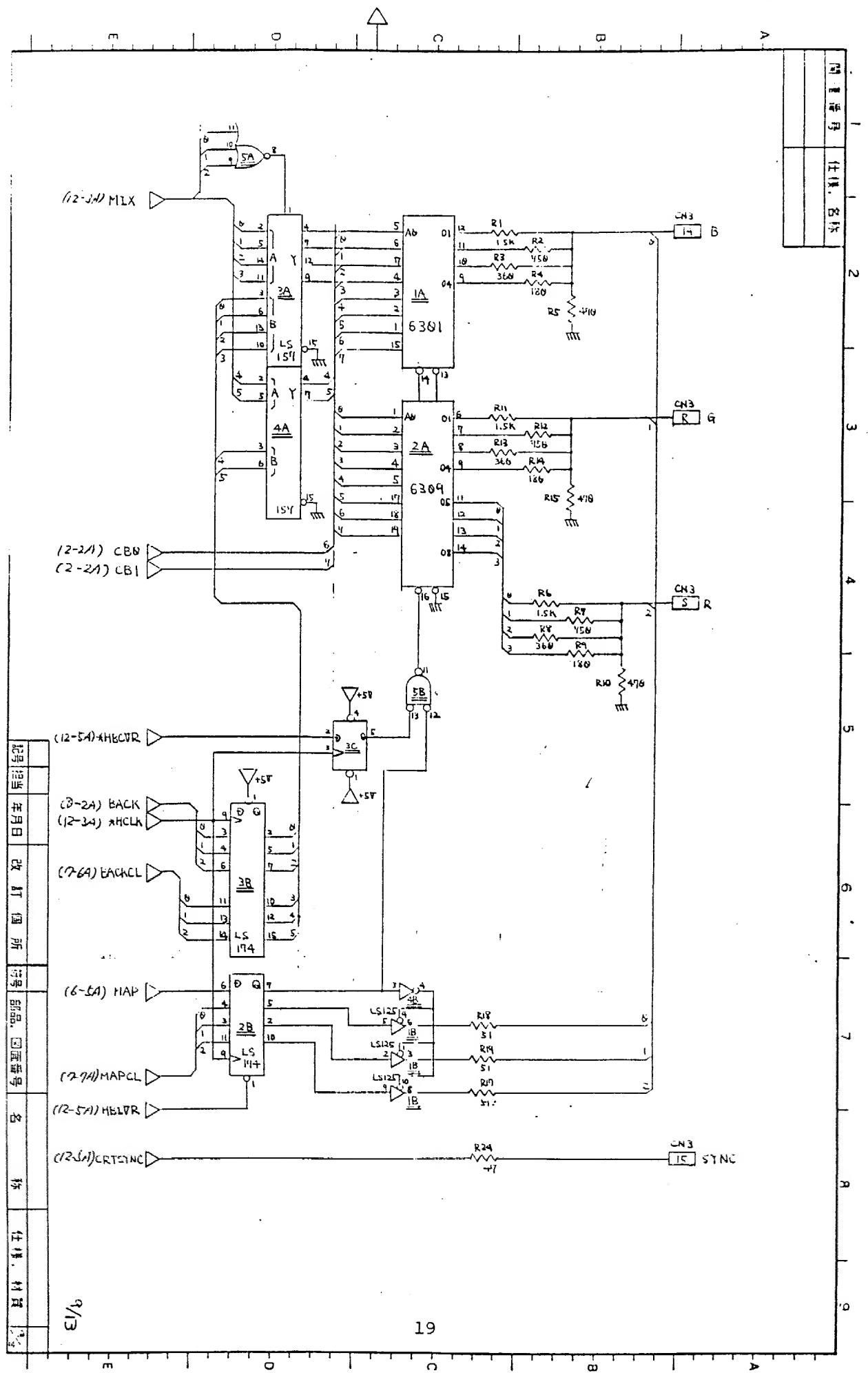


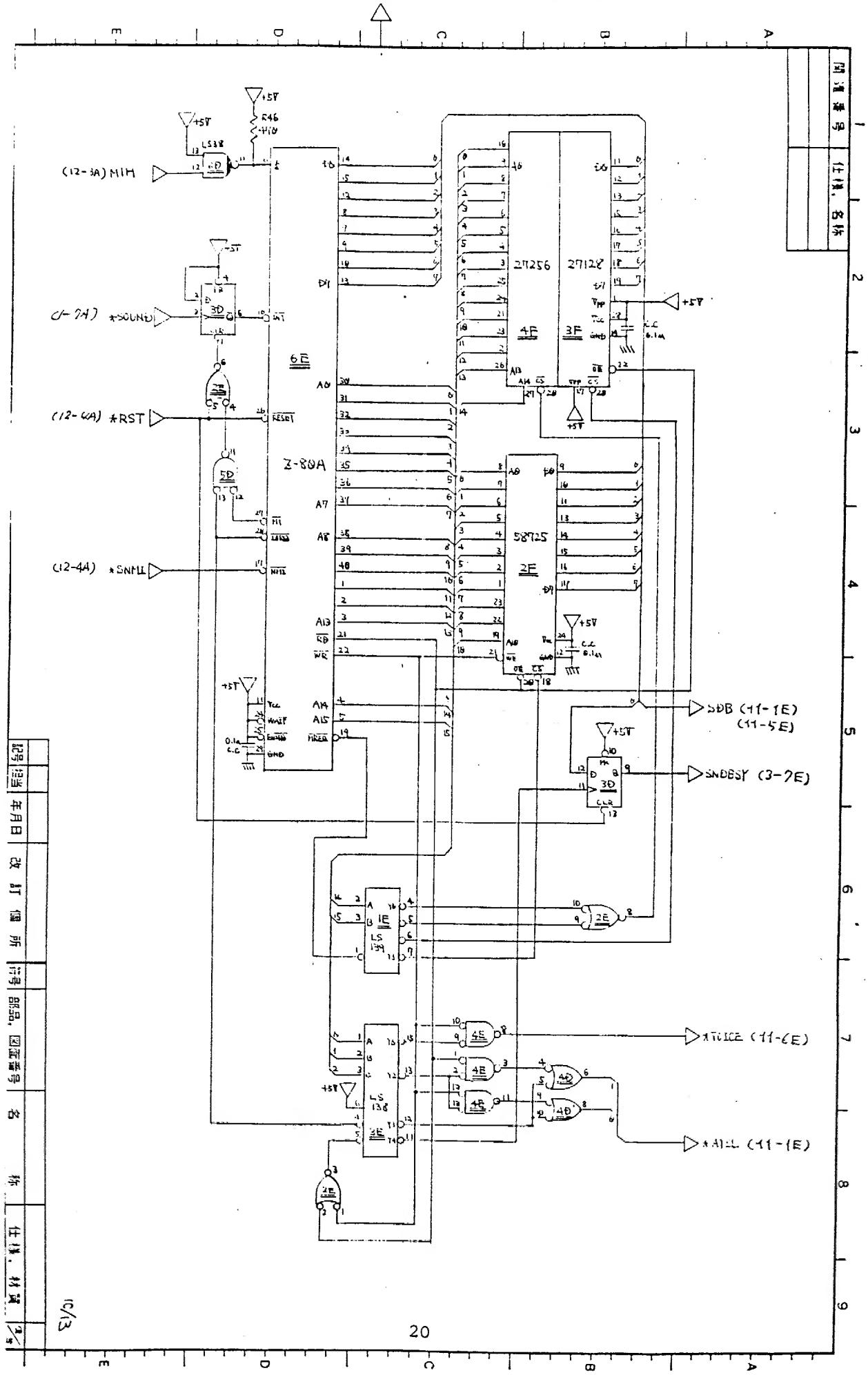


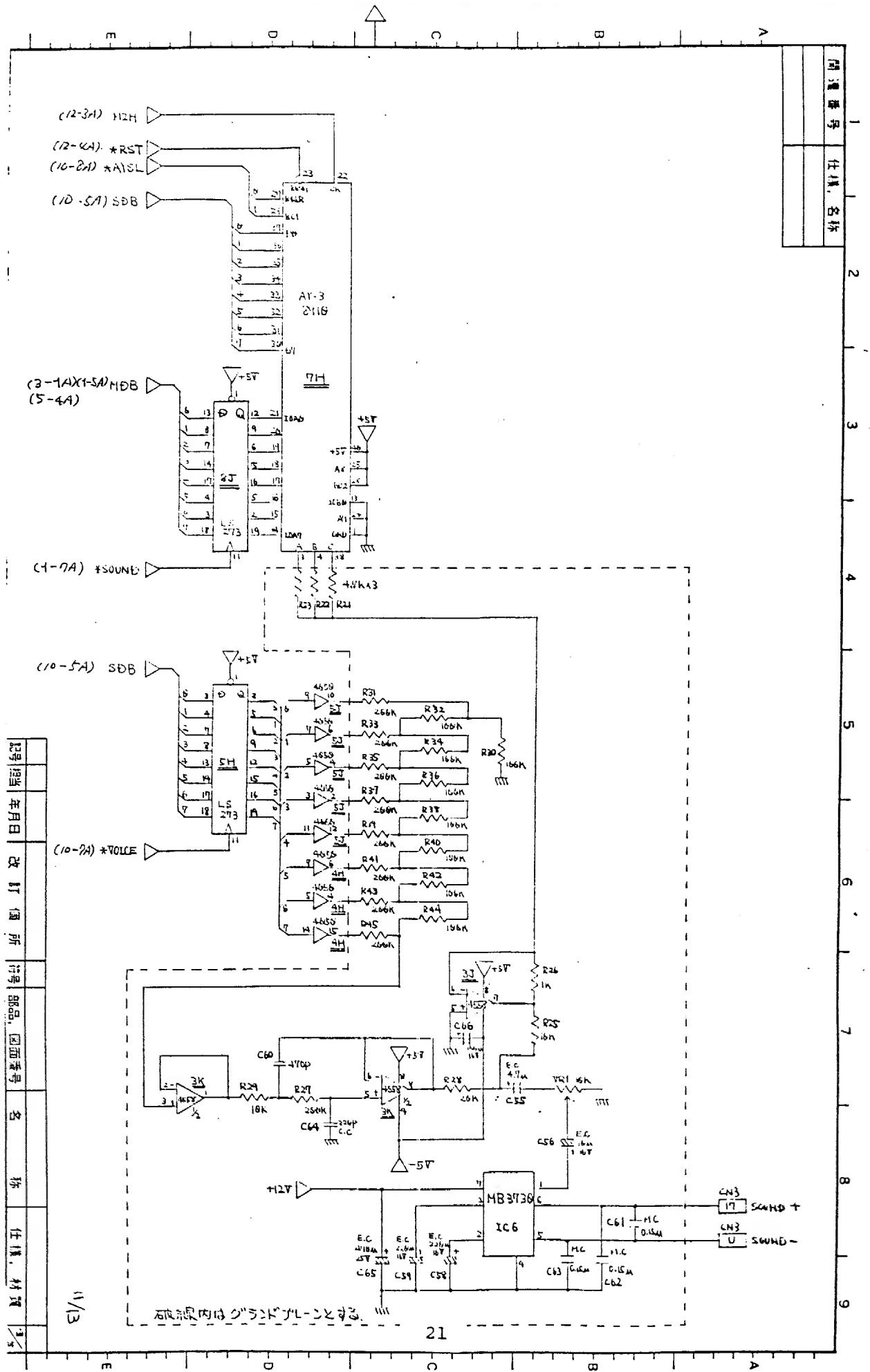


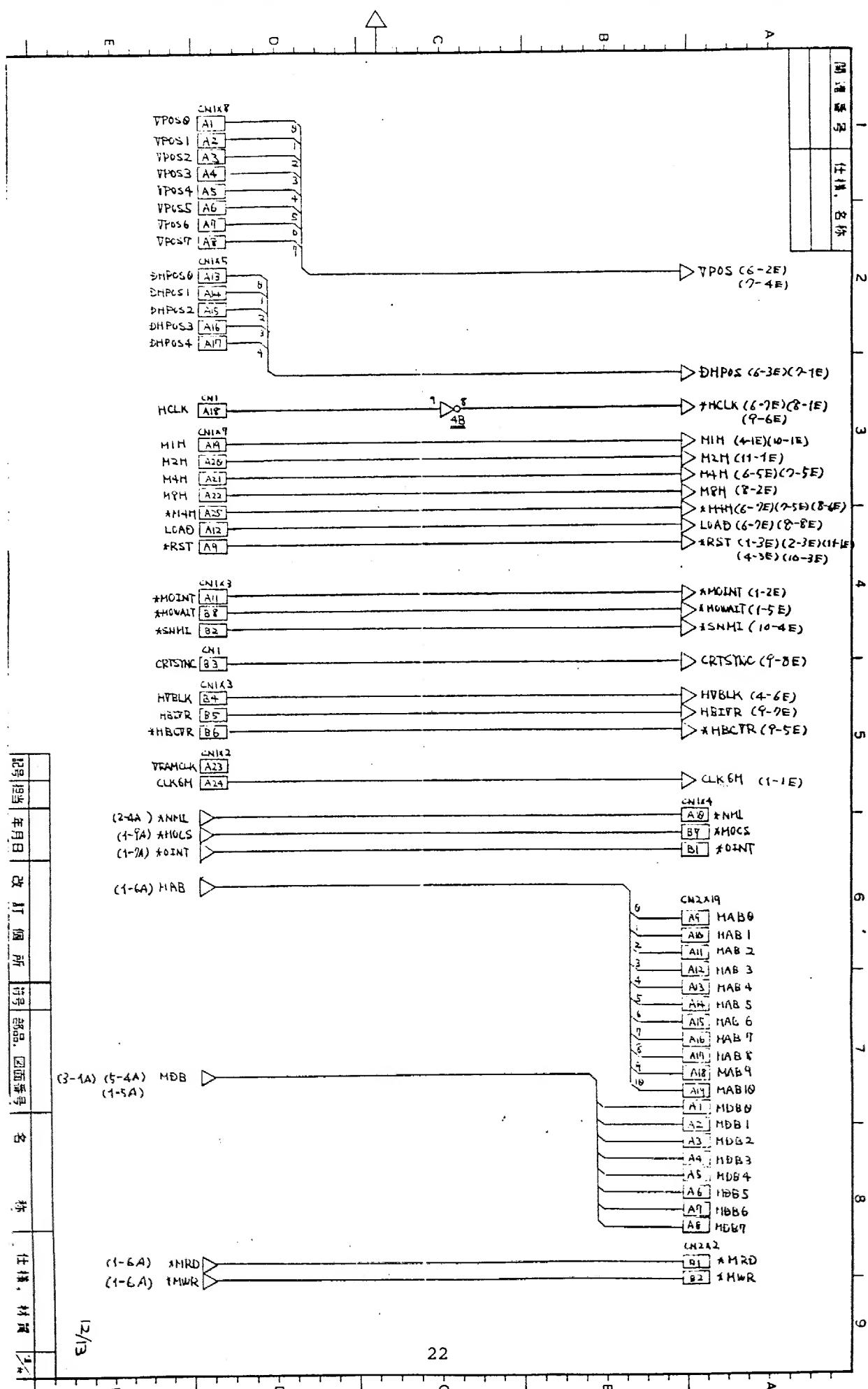




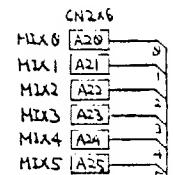








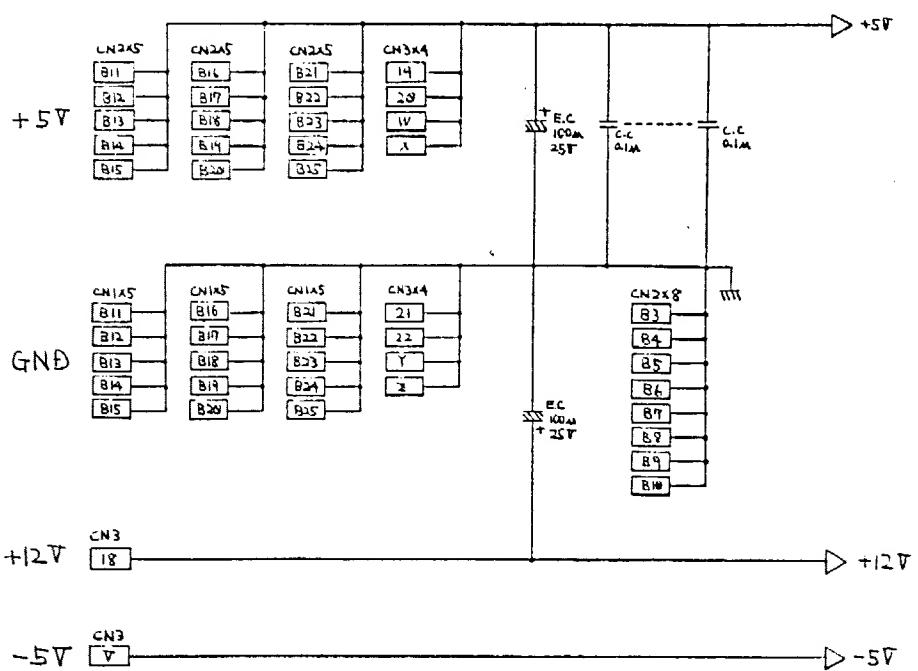
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TBLK [B16]

▷ MIX (9-1E)

▷ TBLK (2-4E)(3-7E)



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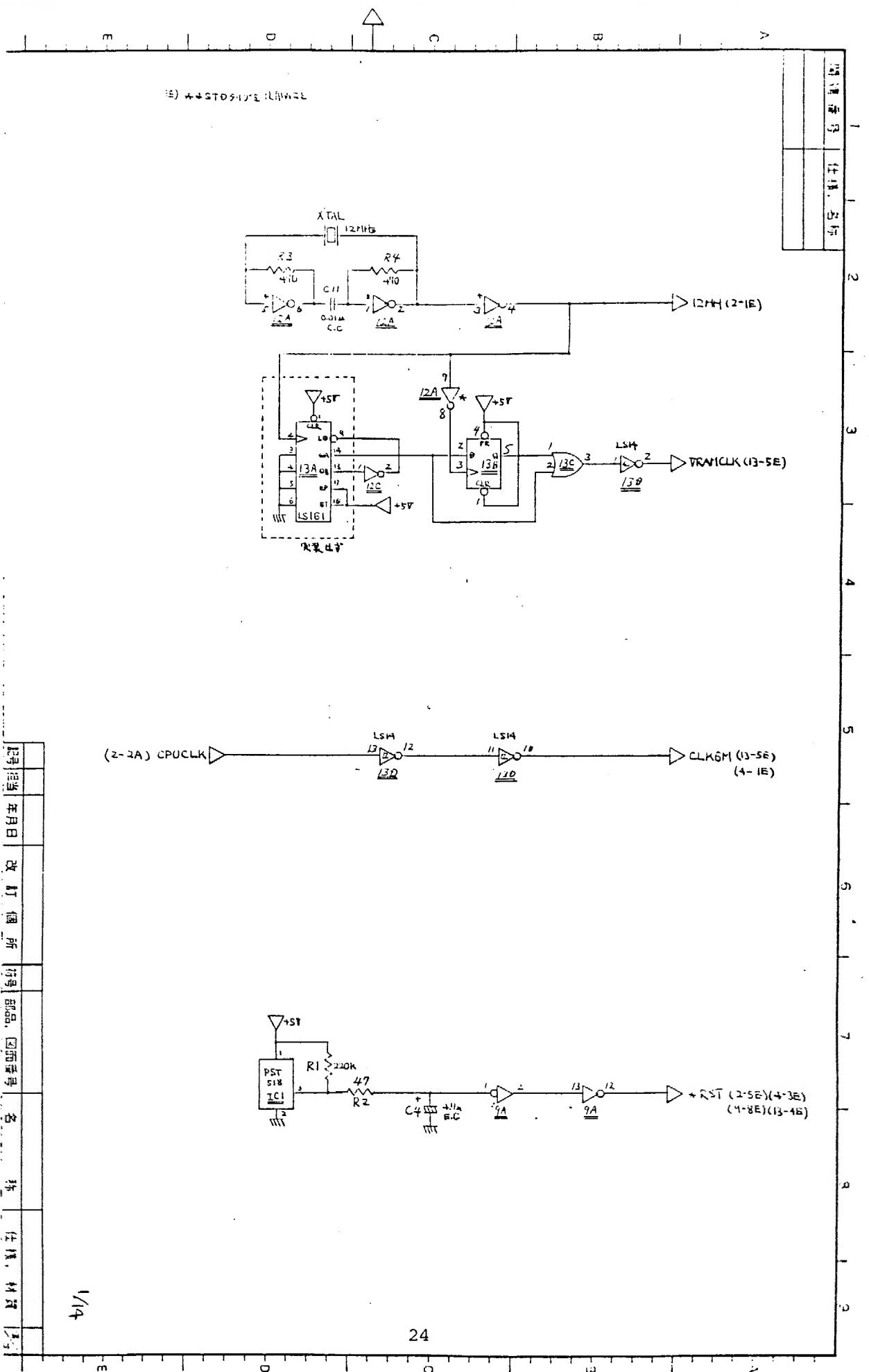
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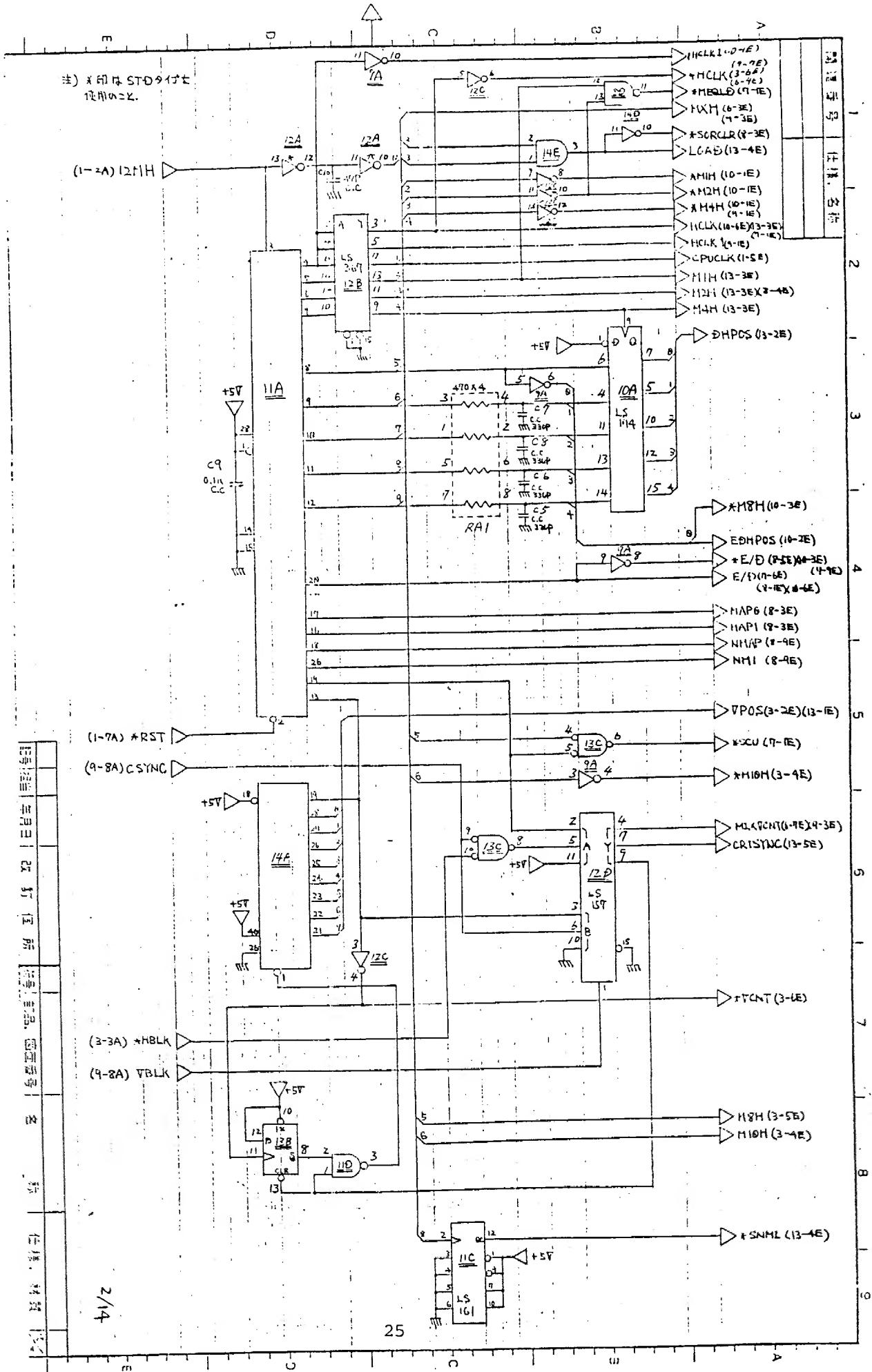
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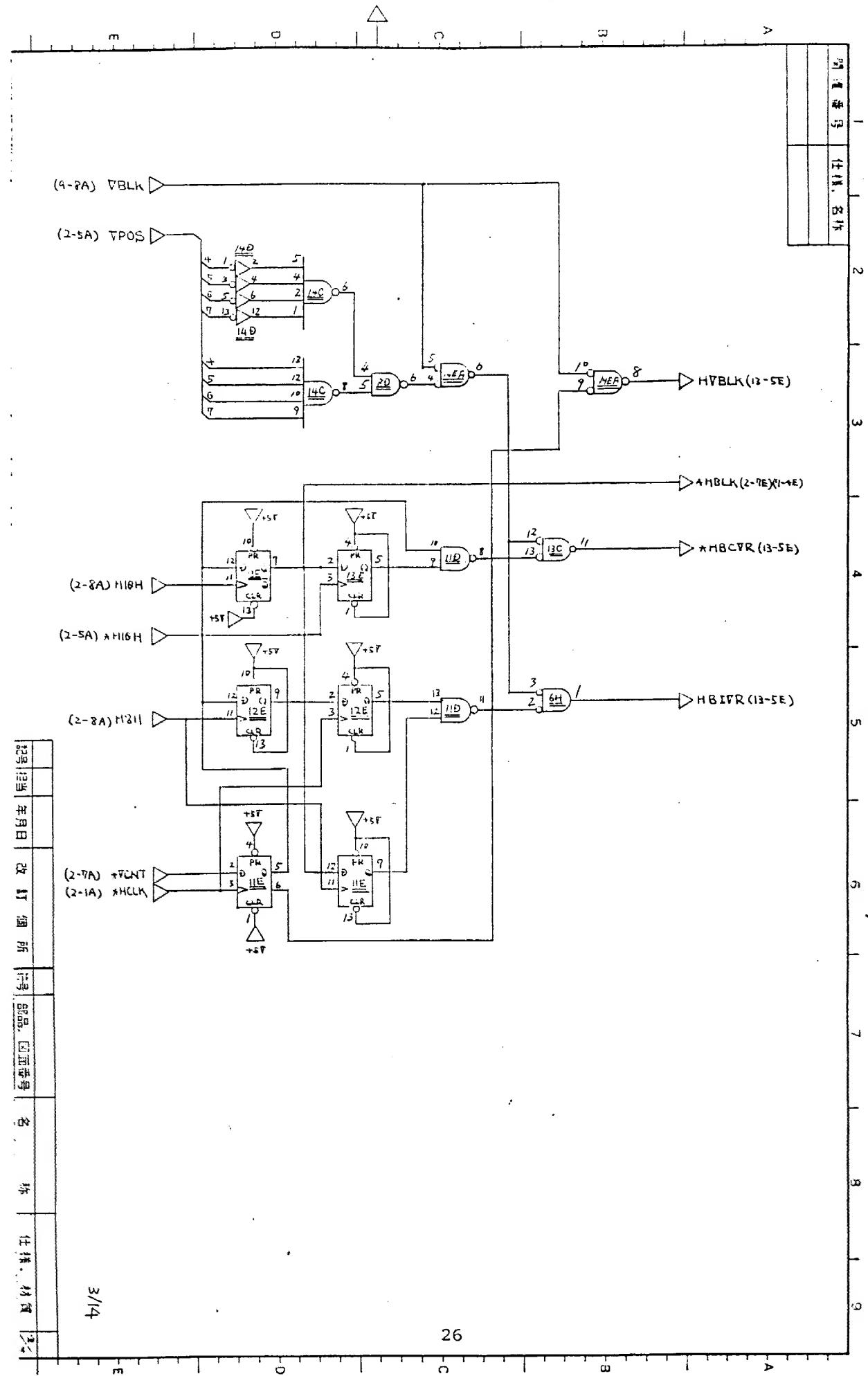
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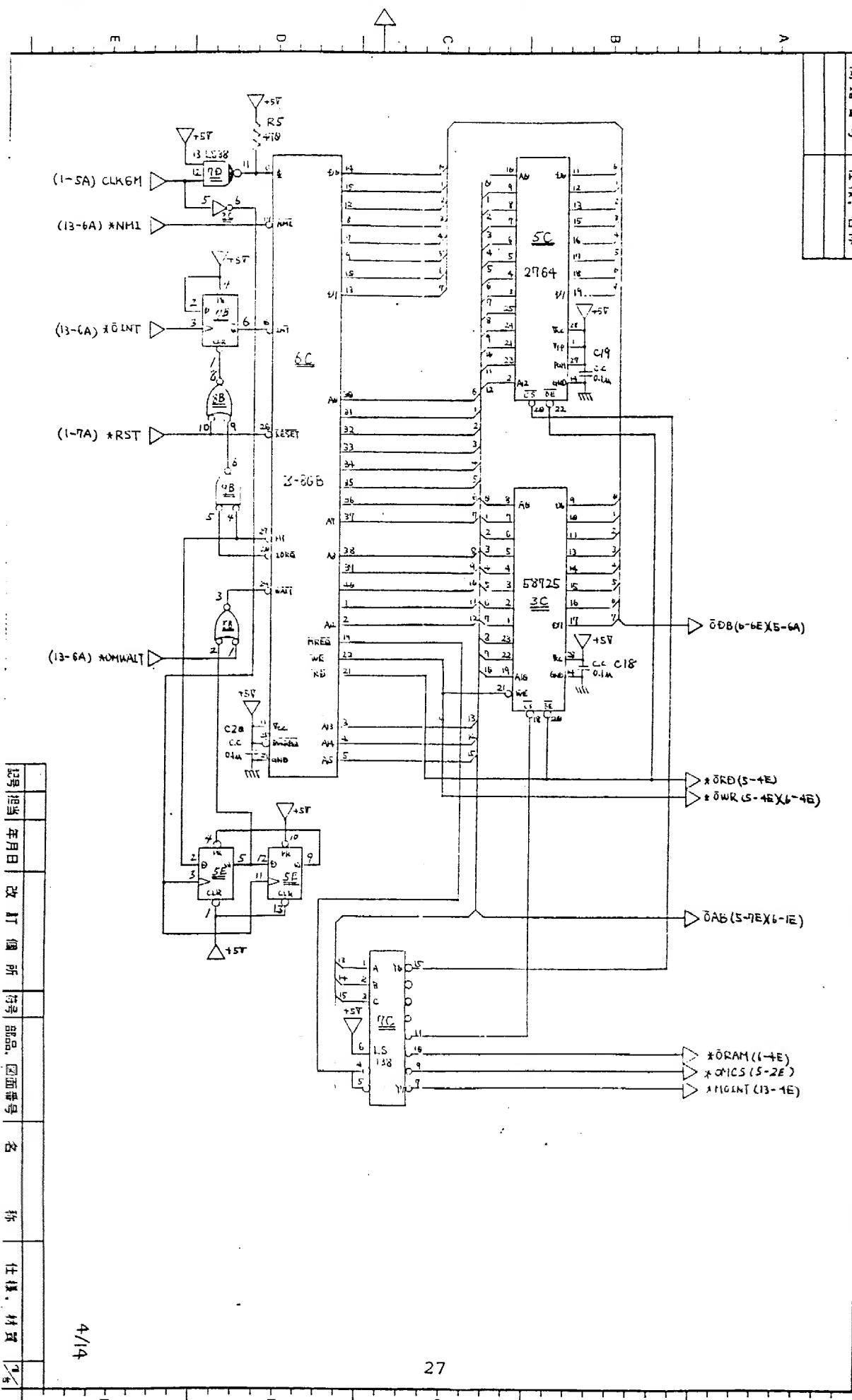
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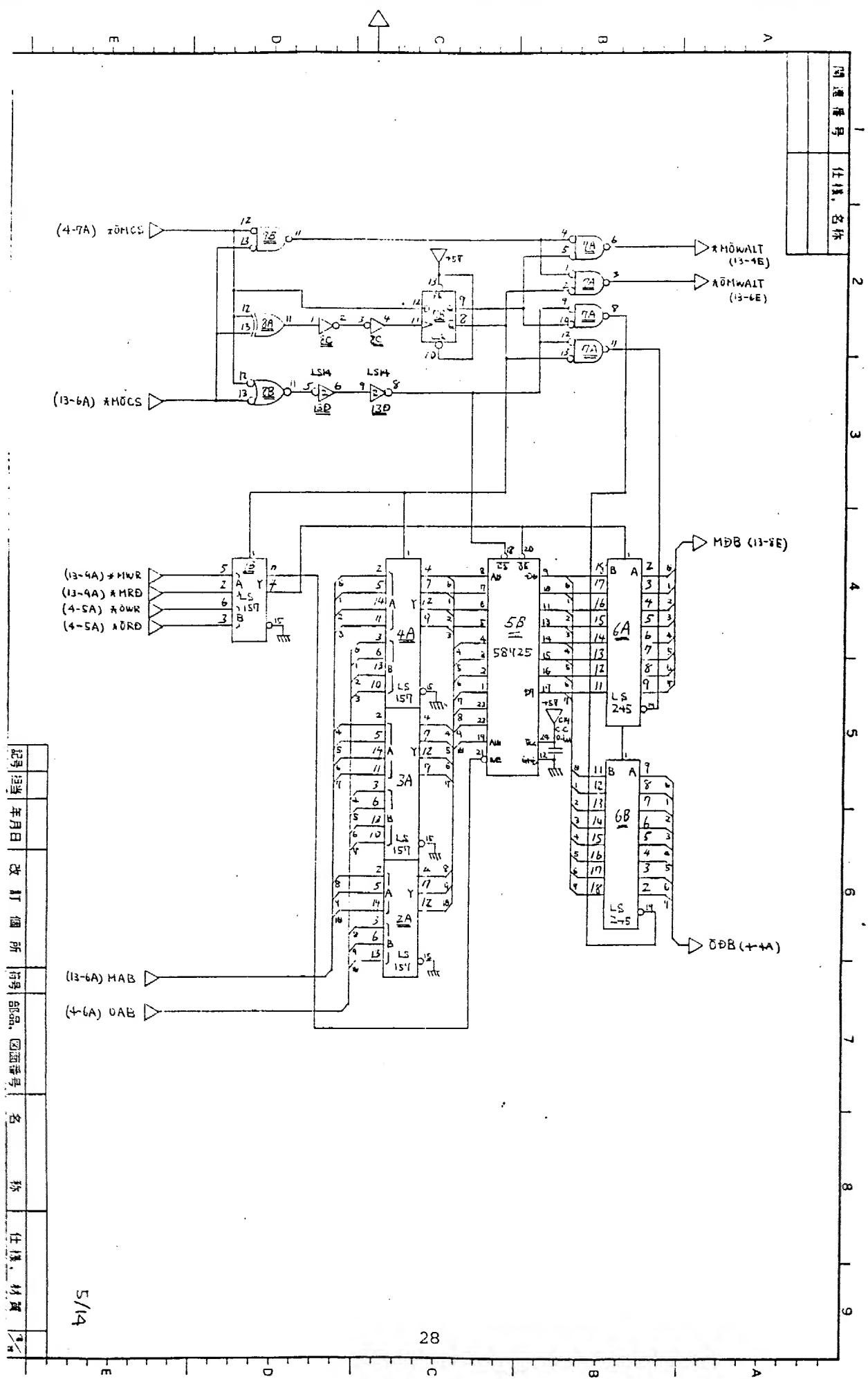


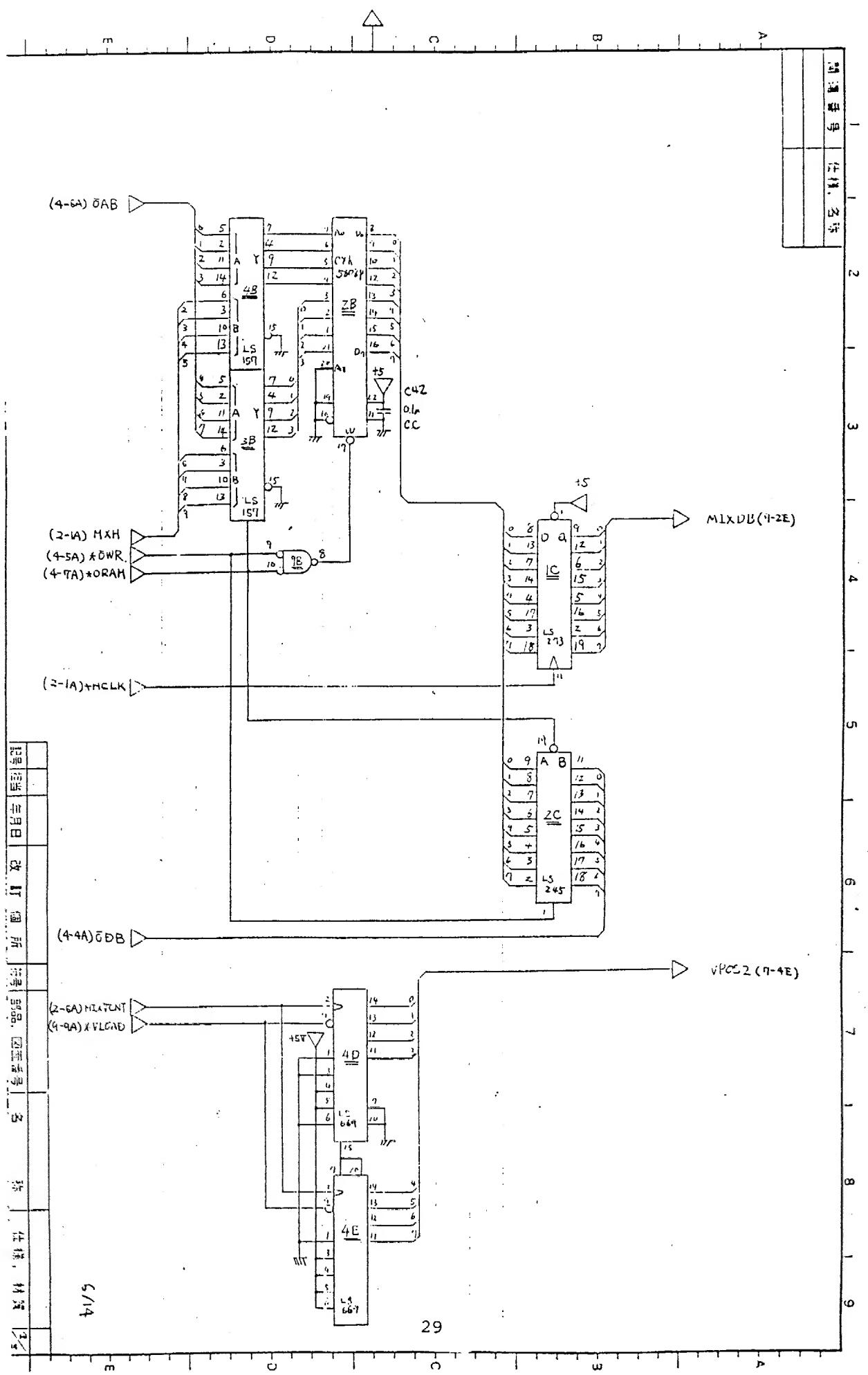


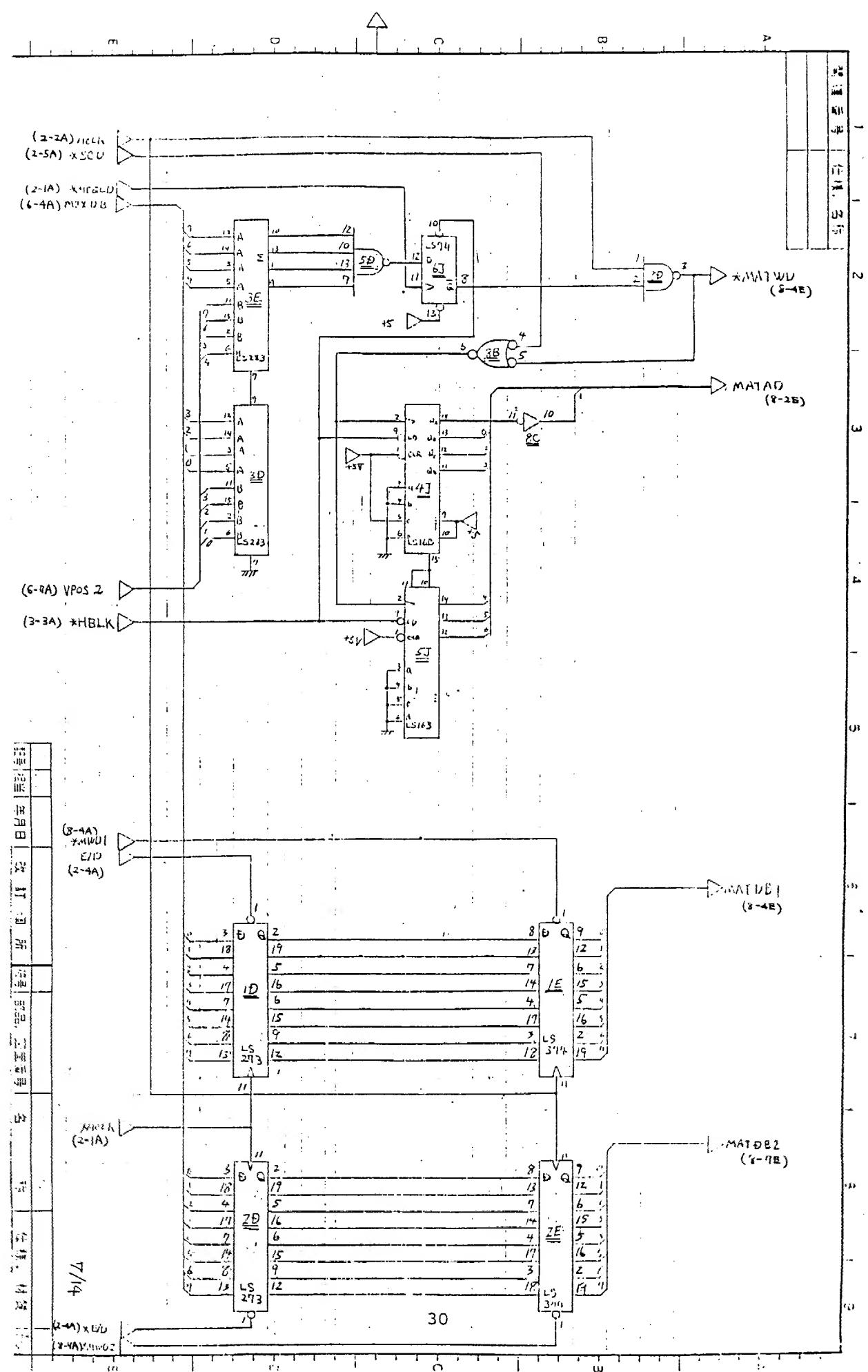


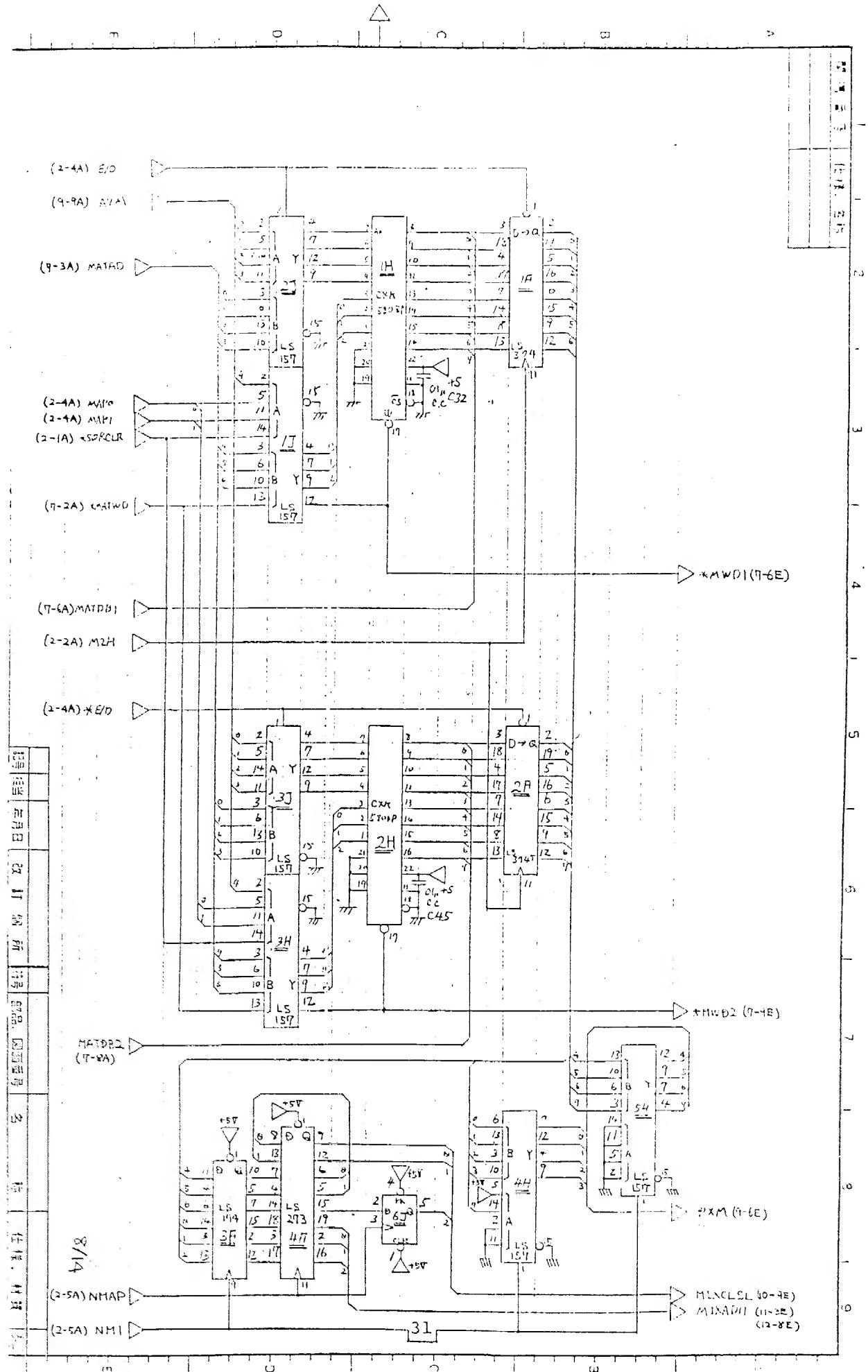
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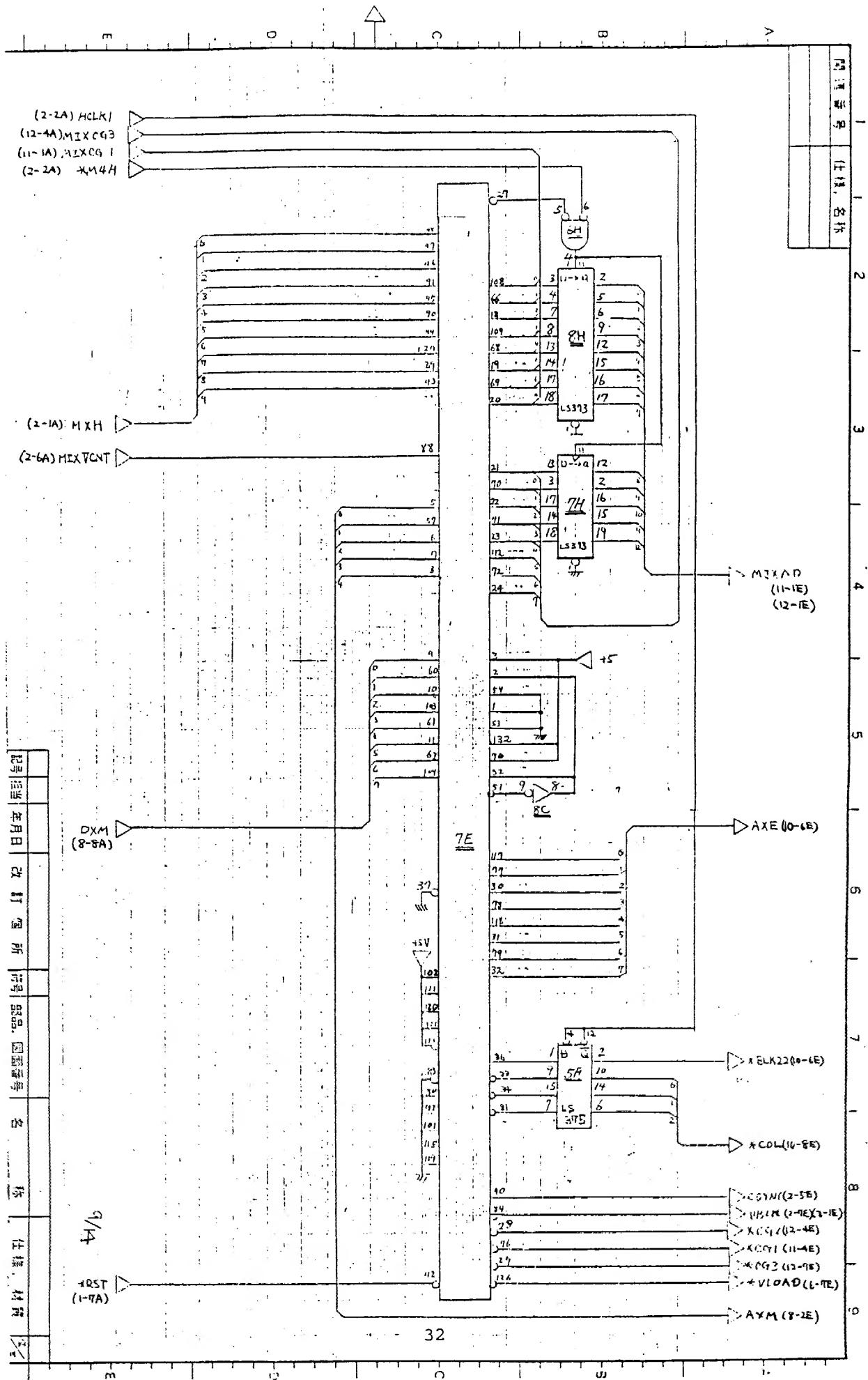




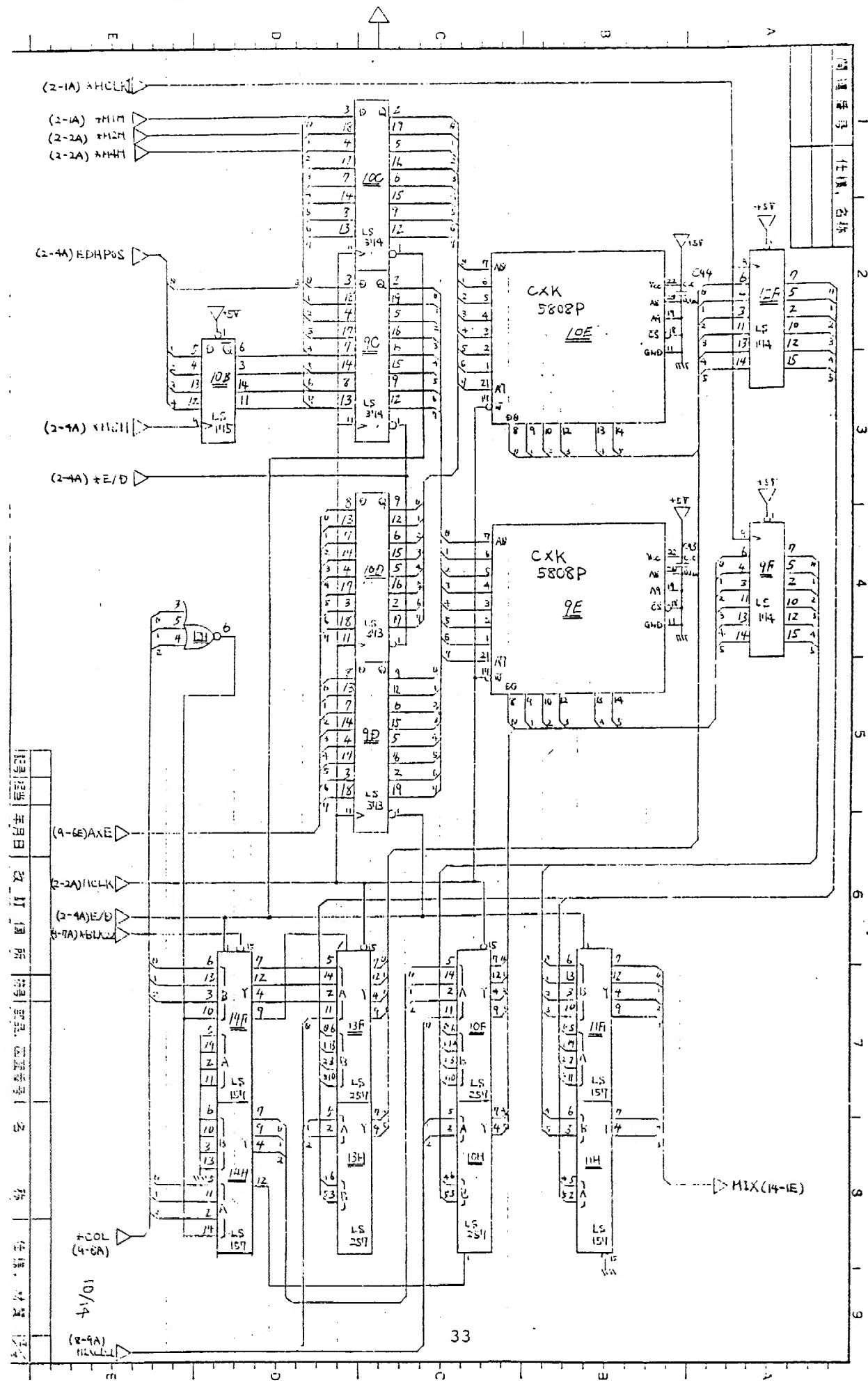


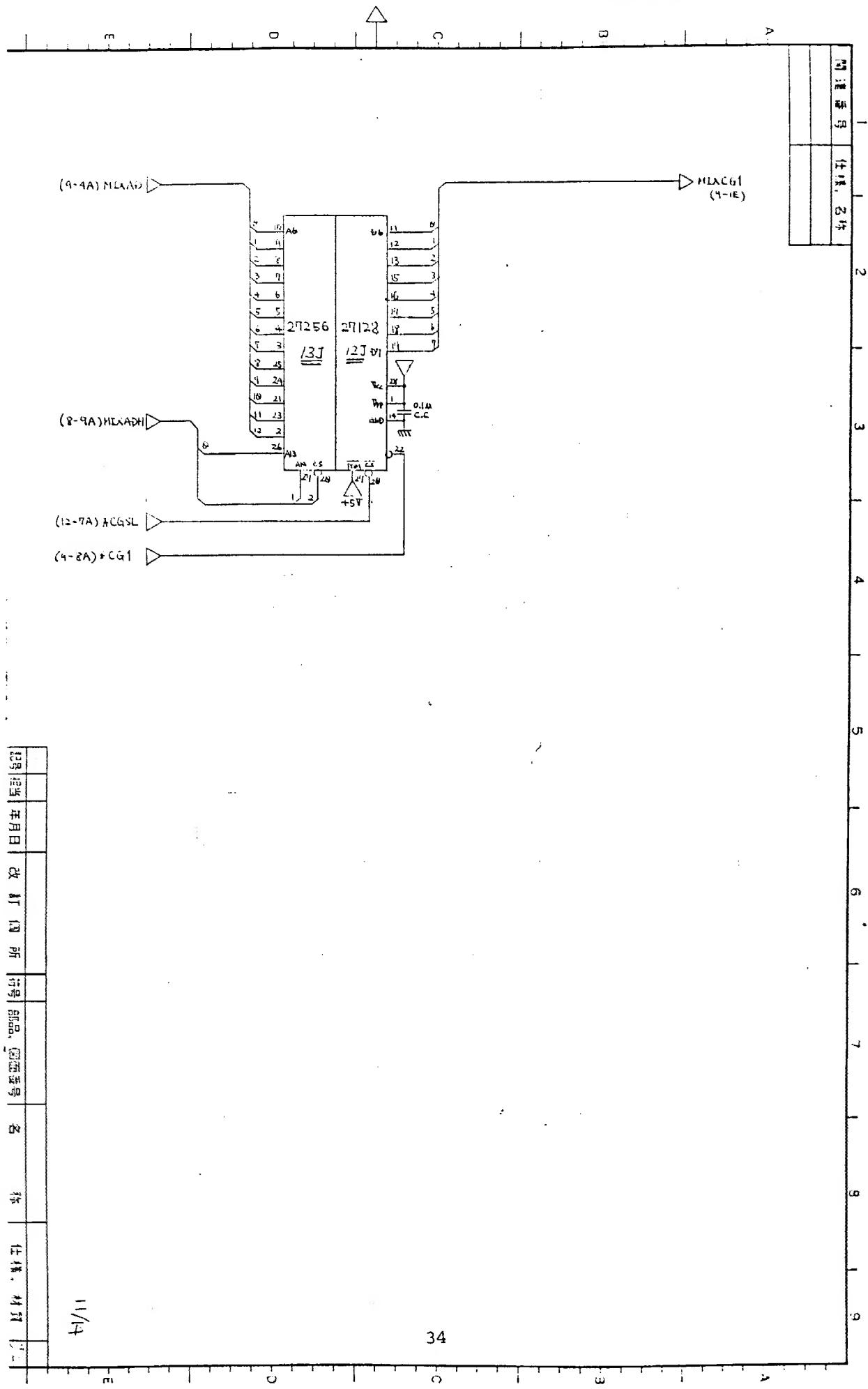




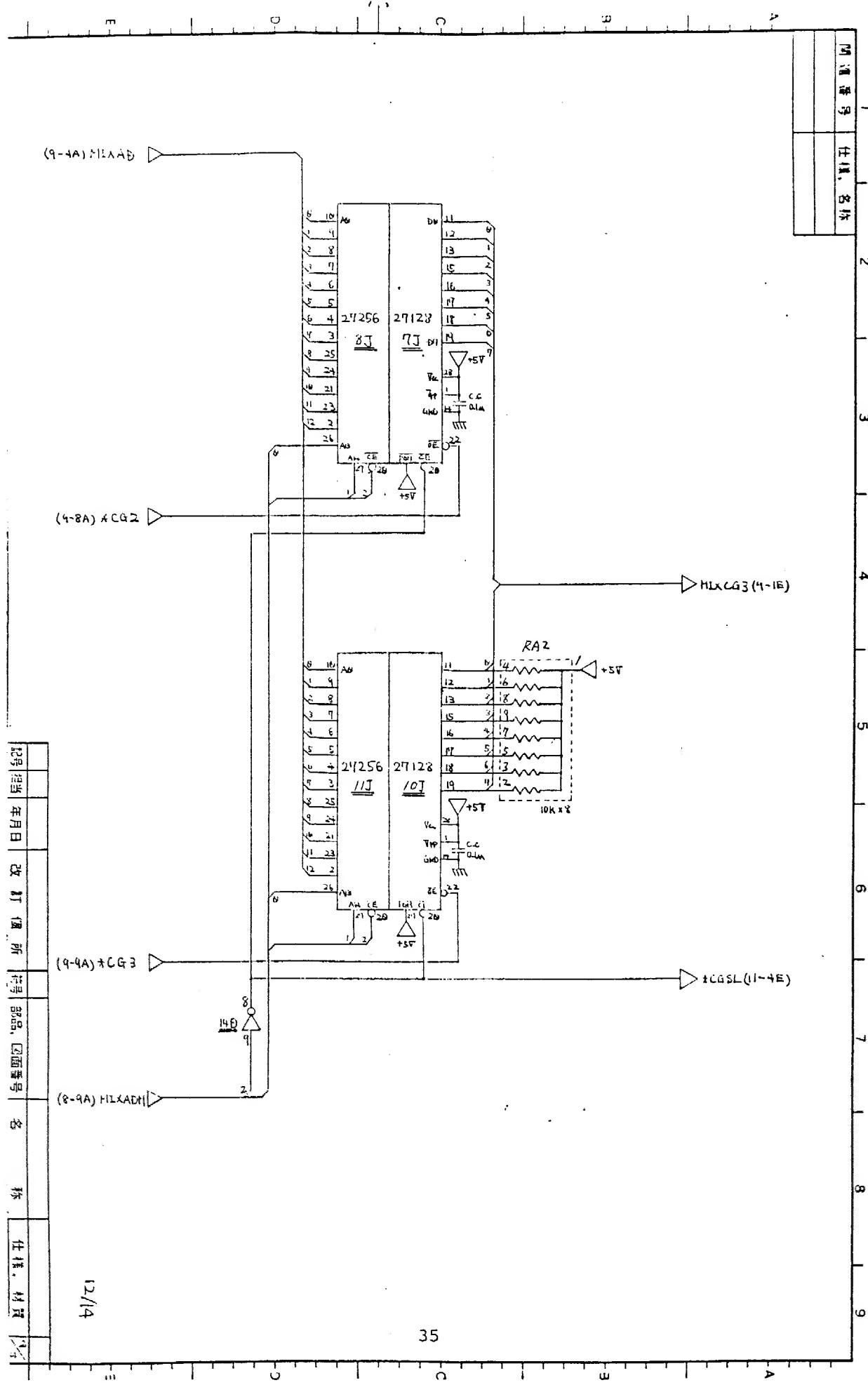


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記号	相当年月日	改訂履歴	所持者	機種、回路番号	名稱	仕様、材質

